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**APPENDIX H**  
**PCB AND PAH SUMMATIONS**

# *Memorandum*



To: Mike Gross, PE, U.S. Army Corps of Engineers, Portland District  
From: Mike Powell, Laura McWilliams, and Chi-Wah Wong  
Date: September 30, 2010  
Subject: Modified Approach for Calculating Total Concentrations of PCBs and PAHs  
Bradford Island Remedial Investigation  
Cascade Locks, Oregon

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## **Background**

During negotiations with the Technical Advisory Group (TAG) in early 2010, the following conventions were developed for summing total concentrations of polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) for use in the Bradford Island Remedial Investigation (RI) and risk assessments (RAs):

*Total PCBs (as Congeners)* – Total concentrations would be calculated using half of the reported detection limit (RDL) as a substitution value for the undetected congeners, and half of the reported value as a substitution value for the estimated maximum potential concentration (EMPC)-qualified data.

*Total PCBs (as Aroclors)* – Individual Aroclors which were never detected in a given media would be excluded from the sums. Aroclors that may be undetected in a certain sample but detected at least once in the remaining samples of a given media would be included in the sample-specific summations using half of the method detection limit (MDL) as a substitution value.

*Total PAHs* – Total concentrations would be calculated for low-molecular weight PAHs (LPAHs), high-molecular weight PAHs (HPAHs), and all PAHs (tPAHs). Individual PAHs never detected in a given media would be excluded from the sums. PAHs that may be undetected in a certain sample but detected at least once in the remaining samples of a given media would be included in the sample-specific summations using half of the MDL as a substitution value.

## **USACE Center of Expertise Recommendations**

Upon review of the draft RI report by the USACE center of expertise, the reviewers recommended that, instead of the substitution method, the Kaplan-Meier method be used to calculate sums whenever possible. The substitution method (no matter what value – zero, the MDL, or half the MDL – is selected for the substitution) is not recommended by statisticians or the EPA (Helsel 1990, 2005b, 2005c, 2009; EPA 2006, 2010). Instead, the EPA currently recommends the Kaplan-Meier method with Efron's bias correction (EPA, 2010) which is generally applicable for summing data sets in which at least three of the components are detected. Use of the Kaplan-Meier method for calculating sums is

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also consistent with the fact that the Kaplan-Meier method is already used in the RI Report for calculating statistical parameters, including mean, standard deviation, and 95% UCL (upper confidence limit on the mean), for data sets with undetected results.

In order to comply with the recently updated Department of Defense Quality Systems Manual (DoD QSM) version 4.1 (DOD, 2009), the reviewers recommended that full method reporting limit (MRL) should be used for censoring undetected values and that the full reported value should be used for censoring EMPC-qualified data. The reviewers acknowledged that statisticians strongly recommend against insider censoring (e.g., Helsel, 2005a) in which undetected results are censored using MRL values, which are greater than the “J”-flagged detected data (which fall between the MDL and the MRL and are used at face value). However, the Kaplan-Meier method is non-parametric and the plotting position of survival function is based on the detected results; therefore, this method is relatively insensitive to the choice of censoring values. The reviewers recommended that the sums could be calculated twice, once using the MDLs and once using the MRLs for censoring non-detects, and the differences discussed in the uncertainty sections of the report.

Where the Kaplan-Meier method cannot be used, the reviewers recommended using the substitution method, substituting the full method reporting limit (MRL) for undetected compounds (in compliance with the DoD QSM; DOD, 2009). The reviewers agreed that individual compounds that were never detected in site media should be excluded from the sums for total PCBs as Aroclors.

### **Proposed Modifications to the RI Report**

The Kaplan-Meier method is a non-parametric statistical method and does not require assumptions of normality (Kaplan and Meier, 1958). It is currently the recommended method used in EPA’s ProUCL software for calculating the 95% UCL for data sets with one or more censored results (EPA 2009a, 2009b). In the application of summing a group of related compounds, the Kaplan-Meier mean is estimated from a set of data (consisting of detected and non-detected values) coming from a given sample, and this Kaplan-Meier mean is then multiplied by the number of compounds (mean  $\times$  n) to compute the sum for the sample.

In the revised RI Report, the Kaplan-Meier method (as encoded in the ProUCL software) will be used to calculate total PCB and PAH concentrations, with the incorporation of the Efron’s bias correction, in which the minimum result (if it is a censored value) is re-coded as a detected result (EPA, 2010). The Kaplan-Meier method is used whenever it is feasible with the ProUCL software (i.e., when there are five or more components to the sum and at least two detected results [three coded-detected results if Efron’s bias correction is used]). To safeguard against a potential biased-high estimate of the KM mean, if the aforementioned summation method results in a total concentration greater than a simple summation of detected concentrations and full censoring concentrations

(MDL, MRL, RDL, or EMPC value) of the non-detected data, the simple sum will establish an upper bound of the total concentration.

*Total PCBs (as Congeners)* – Total concentrations would be calculated using the Kaplan-Meier method, censoring undetected data at the reported detection limit (RDL) and EMPC-qualified at the reported concentration. (Please note that although censoring using a MRL was suggested by the reviewers, the laboratory only provided RDL values.) The resulting total concentration will be capped by the simple sum of detected concentrations, EMPC-qualified concentrations, and RDLs for undetected congeners. This method is more statistically robust, as well as more conservative than calculating the sums by substitution of half of the RDL for undetected results and half of the reported value for EMPC-qualified data. However, it does not change the conclusions derived from the sums (i.e., comparison to screening level values).

For all samples used in the RI Report, the attached table compares the concentrations of total PCB (as congeners) computed in five different ways:

- Simple sum with undetected and EMPC-qualified data set to zero.
- Simple sum with undetected results set at one half the RDL and EMPC-qualified data at one half the reported value.
- Simple sum with undetected results set at the RDL and EMPC-qualified data at the reported value.
- Kaplan-Meier based sum.
- Kaplan-Meier based sum, capped at the simple sum with undetected results set at the RDL and EMPC-qualified data at the reported value

URS proposes that the final column (capped Kaplan-Meier method) be used in the RI Report and associated RAs.

*Total PCBs (as Aroclors)* – Since no more than two individual Aroclors were ever detected in a given sample, the Kaplan-Meier method cannot be used. Therefore, the substitution method will be used. Individual compounds that were never detected in a given media will be excluded from the sums. Two sums will be calculated for each sample. In the first sum, Aroclors that may be undetected in a certain sample but detected at least once in the remaining samples of a given media would be included in the sample-specific summations using the MDL as a substitution value. In the second sum, these Aroclors would be included using the MRL as a substitution value.

*Total PAHs* – Total concentrations will be calculated for low-molecular weight PAHs (LPAHs), high-molecular weight PAHs (HPAHs), and all PAHs (tPAHs). No individual PAHs will be excluded from the sums. The sums will be calculated twice: once using the MDL as the censoring value for non-detects, and once using the MRL as the censoring value for non-detects. Whenever a minimum of five component PAHs are included in

the sum, and at least two component PAHs are detected, the sum will be calculated using the Kaplan-Meier method, capped by the simple sum with undetected results set at the MDL (or MRL). When these requirements are not met, the sum will be calculated as the simple sum with undetected results set at the MDL (or MRL).

## References

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- EPA 2009b. "ProUCL Version 4.00.04 User Guide (Draft)." Singh, A., R. Maichle, A.K. Singh, S.E. Lee, and N. Armbya. Office of Research and Development, National Exposure Research Laboratory. EPA/600/R-07/038. February.
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Table 1. Comparison of Concentrations of Total PCBs (as Congeners) Calculated by Different Methods

Medium	Area	Station	Prep. Fraction	Units	No. of Congeners (Excl. coeluted congeners)	No. of Detected Congeners (Excl. NDs and EMPCs)	Percentage of Detected Congeners	Total PCBs (as Congeners)				
								Simple Sum (NDs=0 and EMPCs=half value)	Simple Sum (NDs=half RDL and EMPCs=half value)	Simple Sum (NDs=RDL and EMPCs=full value)	Kaplan-Meier method, Efron's corrected	Kaplan-Meier method, Efron's corrected, capped
Sediment	Reference	P22	Total	ug/kg	159	109	69%	0.4116	0.4136	0.4156	0.4134	0.4134
Sediment	Reference	P24	Total	ug/kg	159	102	64%	0.4451	0.4478	0.4505	0.4484	0.4484
Sediment	Reference	P26	Total	ug/kg	159	109	69%	0.3589	0.3613	0.3638	0.3609	0.3609
Sediment	Reference	P27	Total	ug/kg	159	118	74%	0.9282	0.9324	0.9366	0.9317	0.9317
Sediment	Reference	P28	Total	ug/kg	159	107	67%	0.4556	0.4582	0.4609	0.4579	0.4579
Sediment	Reference	P29	Total	ug/kg	159	114	72%	0.5831	0.5851	0.5872	0.5851	0.5851
Sediment	Reference	P34	Total	ug/kg	159	128	81%	1.2017	1.2031	1.2046	1.2036	1.2036
Sediment	Reference	P35	Total	ug/kg	159	104	65%	0.4019	0.4051	0.4083	0.4055	0.4055
Sediment	Reference	P36	Total	ug/kg	159	102	64%	0.3987	0.4017	0.4048	0.4023	0.4023
Sediment	Reference	P37	Total	ug/kg	159	99	62%	0.3749	0.3792	0.3834	0.3784	0.3784
Sediment	Reference	P38	Total	ug/kg	159	110	69%	0.5886	0.5905	0.5924	0.5915	0.5915
Sediment	Reference	P39	Total	ug/kg	159	91	57%	0.2673	0.2719	0.2766	0.2719	0.2719
Sediment	Reference	P40	Total	ug/kg	159	101	64%	0.4385	0.4416	0.4447	0.4420	0.4420
Sediment	Reference	P41	Total	ug/kg	159	94	59%	0.2702	0.2743	0.2784	0.2735	0.2735
Sediment	Reference	P42	Total	ug/kg	159	73	46%	0.1558	0.1622	0.1686	0.1606	0.1606
Sediment	Reference	P85	Total	ug/kg	159	107	67%	0.6319	0.6348	0.6377	0.6344	0.6344
Sediment	Reference	P86	Total	ug/kg	159	96	60%	0.3216	0.3261	0.3305	0.3260	0.3260
Sediment	Reference	P87	Total	ug/kg	159	103	65%	0.4052	0.4089	0.4126	0.4086	0.4086
Sediment	Forebay	P04	Total	ug/kg	159	130	82%	29.7236	29.7355	29.7475	29.7330	29.7330
Sediment	Forebay	P05	Total	ug/kg	159	88	55%	0.2970	0.3014	0.3058	0.3005	0.3005
Sediment	Forebay	P06	Total	ug/kg	159	97	61%	0.7718	0.7781	0.7843	0.7775	0.7775
Sediment	Forebay	P07	Total	ug/kg	159	110	69%	1.6887	1.6924	1.6962	1.6854	1.6854
Sediment	Forebay	P08	Total	ug/kg	159	105	66%	1.0805	1.0845	1.0885	1.0844	1.0844
Sediment	Forebay	P09	Total	ug/kg	159	113	71%	2.0879	2.0929	2.0978	2.0988	2.0978
Sediment	Forebay	P10	Total	ug/kg	159	120	75%	1.2338	1.2370	1.2403	1.2370	1.2370
Sediment	Forebay	P11	Total	ug/kg	159	126	79%	1.1191	1.1223	1.1256	1.1210	1.1210
Sediment	Forebay	P13	Total	ug/kg	159	108	68%	0.6788	0.6873	0.6957	0.6837	0.6837
Sediment	Forebay	P14	Total	ug/kg	159	72	45%	0.1378	0.1466	0.1553	0.1435	0.1435
Sediment	Forebay	P15	Total	ug/kg	159	114	72%	0.9703	0.9746	0.9790	0.9731	0.9731
Sediment	Forebay	P16	Total	ug/kg	159	108	68%	0.8324	0.8374	0.8424	0.8363	0.8363
Sediment	Forebay	P17	Total	ug/kg	159	105	66%	0.5856	0.5895	0.5934	0.5883	0.5883
Sediment	Forebay	P18	Total	ug/kg	159	113	71%	0.5202	0.5220	0.5239	0.5231	0.5231
Sediment	Forebay	P21	Total	ug/kg	159	108	68%	0.5681	0.5715	0.5749	0.5708	0.5708
Sediment	Forebay	P65	Total	ug/kg	159	103	65%	0.3966	0.3993	0.4019	0.3991	0.3991
Sediment	Forebay	P67	Total	ug/kg	159	61	38%	0.0559	0.0614	0.0670	0.0611	0.0611
Sediment	Forebay	P88	Total	ug/kg	159	95	60%	0.2008	0.2033	0.2058	0.2035	0.2035
Sediment	Forebay	P89	Total	ug/kg	159	79	50%	0.1460	0.1536	0.1612	0.1510	0.1510
Sediment	Other	P110	Total	ug/kg	159	105	66%	1.1946	1.2052	1.2158	1.2005	1.2005
Sediment	Other	P111	Total	ug/kg	159	106	67%	1.3351	1.3455	1.3559	1.3404	1.3404
Sediment	Other	P46	Total	ug/kg	159	59	37%	0.0821	0.0905	0.0990	0.0880	0.0880
Sediment	Other	P47	Total	ug/kg	159	85	53%	0.2099	0.2154	0.2210	0.2147	0.2147
Sediment	Other	P48	Total	ug/kg	159	86	54%	0.1684	0.1746	0.1808	0.1733	0.1733
Sediment	Other	P49	Total	ug/kg	159	103	65%	0.4123	0.4210	0.4297	0.4182	0.4182
Sediment	Other	P50	Total	ug/kg	159	110	69%	0.9151	0.9191	0.9230	0.9174	0.9174
Sediment	Other	P51	Total	ug/kg	159	77	48%	0.2079	0.2157	0.2235	0.2131	0.2131
Clam	Reference	P22	Total	ug/kg	159	144	91%	30.9084	30.9116	30.9149	30.8460	30.8460
Clam	Reference	P24	Total	ug/kg	159	139	87%	28.2942	28.3235	28.3528	28.3020	28.3020
Clam	Reference	P26	Total	ug/kg	159	123	77%	31.5801	31.5897	31.5992	31.5992	31.5992
Clam	Reference	P27	Total	ug/kg	159	123	77%	32.9696	32.9783	32.9870	32.9130	32.9130
Clam	Reference	P28	Total	ug/kg	159	140	88%	31.3838	31.3931	31.4023	31.3230	31.3230
Clam	Reference	P29	Total	ug/kg	159	144	91%	29.7757	29.7812	29.7867	29.7330	29.7330
Clam	Reference	P34	Total	ug/kg	159	141	89%	30.3789	30.3846	30.3904	30.3690	30.3690
Clam	Reference	P35	Total	ug/kg	159	142	89%	34.4403	34.4457	34.4510	34.5030	34.4510
Clam	Reference	P36	Total	ug/kg	159	144	91%	33.6567	33.6640	33.6713	33.7080	33.6713
Clam	Reference	P37	Total	ug/kg	159	141	89%	30.1738	30.2054	30.2370	30.2100	30.2100
Clam	Reference	P38	Total	ug/kg	159	138	87%	28.6382	28.6609	28.6836	28.6200	28.6200
Clam	Reference	P39	Total	ug/kg	159	136	86%	34.3547	34.3822	34.4096	34.3440	34.3440
Clam	Reference	P40	Total	ug/kg	159	142	89%	32.9312	32.9550	32.9788	32.9130	32.9130
Clam	Reference	P41	Total	ug/kg	159	139	87%	32.7845	32.8239	32.8632	32.7540	32.7540
Clam	Reference	P42	Total	ug/kg	159	131	82%	29.7961	29.8198	29.8434	29.	

Crayfish	Forebay	P14-CF	Total	ug/kg	159	69	43%	0.8179	0.8318	0.8457	0.8252	0.8252
Crayfish	Forebay	P15-CF	Total	ug/kg	159	82	52%	0.8096	0.8205	0.8314	0.8157	0.8157
Crayfish	Forebay	P16-CF	Total	ug/kg	159	78	49%	1.3270	1.3438	1.3607	1.3356	1.3356
Crayfish	Forebay	P17-CF	Total	ug/kg	159	74	47%	0.5291	0.5420	0.5549	0.5358	0.5358
Crayfish	Forebay	P18-CF	Total	ug/kg	159	79	50%	1.1124	1.1219	1.1315	1.1178	1.1178
Crayfish	Forebay	P19-CF	Total	ug/kg	159	65	41%	0.7585	0.7753	0.7922	0.7664	0.7664
Crayfish	Forebay	P20-CF	Total	ug/kg	159	75	47%	0.9049	0.9204	0.9359	0.9111	0.9111
Crayfish	Forebay	P21-CF	Total	ug/kg	159	81	51%	0.9597	0.9750	0.9903	0.9667	0.9667
Crayfish	Other	P110	Total	ug/kg	159	74	47%	0.5785	0.5961	0.6138	0.5867	0.5867
Largescale Sucker	Forebay	COMP	Total	ug/kg	159	144	91%	200.9127	200.9290	200.9454	200.9760	200.9454
Sculpin	Reference	SR-01	Total	ug/kg	159	126	79%	16.8023	16.8121	16.8220	16.8540	16.8220
Sculpin	Reference	SR-02	Total	ug/kg	159	122	77%	21.9892	22.0006	22.0120	21.9420	21.9420
Sculpin	Reference	SR-03	Total	ug/kg	159	116	73%	37.5176	37.5320	37.5464	37.5240	37.5240
Sculpin	Reference	SR-04	Total	ug/kg	159	124	78%	15.9040	15.9134	15.9229	15.9000	15.9000
Sculpin	Reference	SR-05	Total	ug/kg	159	131	82%	38.3594	38.3772	38.3950	38.3190	38.3190
Sculpin	Reference	SR-06	Total	ug/kg	159	116	73%	12.2426	12.2569	12.2712	12.2430	12.2430
Sculpin	Reference	SR-07	Total	ug/kg	159	130	82%	19.2796	19.2901	19.3006	19.2390	19.2390
Sculpin	Reference	SR-08	Total	ug/kg	159	121	76%	18.1615	18.1723	18.1832	18.1260	18.1260
Sculpin	Reference	SR-09	Total	ug/kg	159	127	80%	18.5073	18.5180	18.5287	18.4440	18.4440
Sculpin	Reference	SR-10	Total	ug/kg	159	121	76%	23.9278	23.9495	23.9712	24.0090	23.9712
Sculpin	Reference	SR-11	Total	ug/kg	159	127	80%	32.4198	32.4295	32.4391	32.4360	32.4360
Sculpin	Reference	SR-12	Total	ug/kg	159	124	78%	27.5318	27.5436	27.5555	27.5070	27.5070
Sculpin	Reference	SR-13	Total	ug/kg	159	124	78%	31.4036	31.4288	31.4541	31.4820	31.4541
Sculpin	Reference	SR-14	Total	ug/kg	159	116	73%	22.2700	22.3073	22.3446	22.2600	22.2600
Sculpin	Reference	SR-15	Total	ug/kg	159	114	72%	27.1501	27.1789	27.2077	27.1890	27.1890
Sculpin	Reference	SR-16	Total	ug/kg	159	112	70%	17.3192	17.3592	17.3992	17.3310	17.3310
Sculpin	Reference	SR-17	Total	ug/kg	159	119	75%	30.5089	30.5330	30.5571	30.5280	30.5280
Sculpin	Reference	SR-18	Total	ug/kg	159	115	72%	24.2010	24.2384	24.2758	24.1680	24.1680
Sculpin	Forebay	SF-01	Total	ug/kg	159	121	76%	14.9477	14.9579	14.9681	14.9460	14.9460
Sculpin	Forebay	SF-02	Total	ug/kg	159	124	78%	48.8494	48.8617	48.8740	48.8130	48.8130
Sculpin	Forebay	SF-03	Total	ug/kg	159	90	57%	4770.5365	4777.1656	4783.7947	4773.1800	4773.1800
Sculpin	Forebay	SF-04	Total	ug/kg	159	135	85%	914.9107	914.9568	915.0028	914.8860	914.8860
Sculpin	Forebay	SF-05	Total	ug/kg	159	136	86%	558.8605	558.9068	558.9531	558.8850	558.8850
Sculpin	Forebay	SF-06	Total	ug/kg	159	133	84%	141.1439	141.1665	141.1891	141.1920	141.1891
Sculpin	Forebay	SF-07	Total	ug/kg	159	133	84%	22.9315	22.9377	22.9439	22.8960	22.8960
Sculpin	Forebay	SF-08	Total	ug/kg	159	131	82%	26.1371	26.1439	26.1507	26.0760	26.0760
Sculpin	Forebay	SF-09	Total	ug/kg	159	123	77%	12.2765	12.2835	12.2905	12.2748	12.2748
Sculpin	Forebay	SF-10	Total	ug/kg	159	130	82%	23.0658	23.0725	23.0793	23.0550	23.0550
Sculpin	Forebay	SF-11	Total	ug/kg	159	124	78%	24.1122	24.1225	24.1329	24.1680	24.1329
Sculpin	Forebay	SF-12	Total	ug/kg	159	128	81%	39.6412	39.6596	39.6779	39.5910	39.5910
Sculpin	Forebay	SF-13	Total	ug/kg	159	117	74%	9.8654	9.8839	9.9025	9.8739	9.8739
Sculpin	Forebay	SF-14	Total	ug/kg	159	127	80%	35.3683	35.3792	35.3901	35.2980	35.2980
Sculpin	Forebay	SF-15	Total	ug/kg	159	108	68%	19.4409	19.5325	19.6240	19.3980	19.3980
Sculpin	Forebay	SF-16	Total	ug/kg	159	128	81%	35.5799	35.5899	35.5999	35.6160	35.5999
Sculpin	Forebay	SF-17	Total	ug/kg	159	125	79%	40.6241	40.6405	40.6570	40.6570	40.6570
Sculpin	Other	P110	Total	ug/kg	159	112	70%	8.1340	8.1510	8.1680	8.1408	8.1408
Smallmouth Bass	Reference	R01	Total	ug/kg	159	106	67%	47.7134	47.8705	48.0277	47.8590	47.8590
Smallmouth Bass	Reference	R02	Total	ug/kg	159	112	70%	41.7646	41.9358	42.1071	41.8170	41.8170
Smallmouth Bass	Reference	R03	Total	ug/kg	159	96	60%	44.6252	44.8868	45.1484	44.6790	44.6790
Smallmouth Bass	Reference	R04	Total	ug/kg	159	95	60%	22.0679	22.2896	22.5113	22.1010	22.1010
Smallmouth Bass	Reference	R05	Total	ug/kg	159	118	74%	163.5171	163.8233	164.1295	163.6110	163.6110
Smallmouth Bass	Reference	R06	Total	ug/kg	159	100	63%	44.2532	44.6093	44.9655	44.3610	44.3610
Smallmouth Bass	Reference	R07	Total	ug/kg	159	98	62%	41.5362	41.7459	41.9557	41.6580	41.6580
Smallmouth Bass	Reference	R10	Total	ug/kg	159	140	88%	117.0512	117.0581	117.0650	117.0240	117.0240
Smallmouth Bass	Reference	R11	Total	ug/kg	159	138	87%	35.7970	35.8007	35.8043	35.7750	35.7750
Smallmouth Bass	Reference	R12	Total	ug/kg	159	134	84%	39.7672	39.7718	39.7765	39.7500	39.7500
Smallmouth Bass	Reference	R13	Total	ug/kg	159	143	90%	69.0534	69.0565	69.0595	69.0060	69.0060
Smallmouth Bass	Reference	R14	Total	ug/kg	159	136	86%	50.1909	50.1949	50.1989	50.2440	50.1989
Smallmouth Bass	Reference	R15	Total	ug/kg	159	137	86%	43.1015	43.1060	43.1105	43.0890	43.0890
Smallmouth Bass	Reference	R16	Total	ug/kg	159	137	86%	498.8557	498.8649	498.8741	498.7830	498.7830
Smallmouth Bass	Reference	R17	Total	ug/kg	159	141	89%	44.2266	44.2303	44.2340	44.2020	44.2020
Smallmouth Bass	Reference	R18	Total	ug/kg	159	135	85%	60.5882	60.6034	6		

**Table H-1**  
**Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 1 of 4)**

Site ID	BIL01SSI		BIL02SSI		BIL03SSI		BIL04SSI		BIL05SSI		BIL06SSI		BIL09SSI		BIL10SSI		BIL11SSI	
Sample ID	990920BIL01SS		990920BIL02SS		990920BIL03SS		990920BIL04SS		990920BIL05SS		990920BIL06SS		990920BIL09SS		990920BIL10SS		990921BIL11SS	
Sample Date	9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/21/1999	
Sample Depth (feet bgs)	0-0.33		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>																		
2-Methylnaphthalene	180 U	180 U	170 U	170 U	180 U	180 U	57.0 J	57.0 J	180 U	180 U	76.0 J	76.0 J	180 U	180 U	180 U	180 U	190 U	190 U
Acenaphthene	180 U	180 U	42.0 J	42.0 J	53.0 J	53.0 J	2,600 J	2,600 J	500	500	171 J	171 J	180 U	180 U	180 U	180 U	140 J	140 J
Acenaphthylene	180 U	180 U	170 U	170 U	180 U	180 U	74.0 J	74.0 J	180 U	180 U	22.0 J	22.0 J	180 U	180 U	180 U	180 U	190 U	190 U
Anthracene	12.0 J	12.0 J	18.0 J	18.0 J	110 J	110 J	2,700	2,700	460	460	176 J	176 J	180 U	180 U	180 U	180 U	100 J	100 J
Fluorene	180 U	180 U	170 U	170 U	47.0 J	47.0 J	1,200	1,200	170 J	170 J	145 J	145 J	180 U	180 U	180 U	180 U	67.0 J	67.0 J
Naphthalene	180 U	180 U	170 U	170 U	180 U	180 U	100 J	100 J	19.0 J	19.0 J	360	360	180 U	180 U	180 U	180 U	190 U	190 U
Phenanthrene	39.0 J	39.0 J	68.0 J	68.0 J	300	300	12,000	12,000	1,900	1,900	1,230	1,230	40.0 J	40.0 J	36.0 J	36.0 J	370	370
Total LPAHs (full MDL/MRL)	771 J	771 J	638 J	638 J	870 J	870 J	18,674 J	18,674 J	3,229 J	3,229 J	2,105 J	2,105 J	940 J	940 J	936 J	936 J	1,057 J	1,057 J
Total LPAHs (KM)	153 J	153 J	256 J	256 J	650 J	650 J	18,672 J	18,672 J	3,143 J	3,143 J	2,105 J	2,105 J	-	-	-	-	881 J	881 J
Total LPAHs (KM, capped)	153 J	153 J	256.02 J	256.02 J	650 J	650 J	18,674 J	18,674 J	3,143 J	3,143 J	2,105 J	2,105 J	940 J	940 J	936 J	936 J	881 J	881 J
<b>HPAHs</b>																		
Benzo(a)anthracene	98.0 J	98.0 J	130 J	130 J	1,600	1,600	32,000	32,000	2,200	2,200	1,400 J	1,400 J	82.0 J	82.0 J	60.0 J	60.0 J	400	400
Benzo(a)pyrene	140 J	140 J	160 J	160 J	1,800	1,800	33,000	33,000	2,200	2,200	1,400 J	1,400 J	100 J	100 J	70.0 J	70.0 J	420	420
Benzo(b)fluoranthene	110 J	110 J	170 J	170 J	2,000	2,000	65,000	65,000	340 J	340 J	2,350	2,350	82.0 J	82.0 J	58.0 J	58.0 J	66.0 J	66.0 J
Benzo(g,h,i)perylene	71.0 J	71.0 J	150 J	150 J	790	790	18,000	18,000	1,800	1,800	1,250 J	1,250 J	82.0 J	82.0 J	51.0 J	51.0 J	290	290
Benzo(k)fluoranthene	110 J	110 J	100 J	100 J	1,000	1,000	65,000	65,000	340 J	340 J	2,350	2,350	89.0 J	89.0 J	64.0 J	64.0 J	66.0 J	66.0 J
Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	120 J	120 J	160 J	160 J	1,600	1,600	32,000	32,000	1,700	1,700	1,650 J	1,650 J	100 J	100 J	79.0 J	79.0 J	420	420
Dibenz(a,h)anthracene	37.0 J	37.0 J	170 U	170 U	450	450	9,900	9,900	540 J	540 J	1,800 U	1,800 U	32.0 J	32.0 J	24.0 J	24.0 J	150 J	150 J
Fluoranthene	130 J	130 J	160 J	160 J	1,600	1,600	54,000	54,000	3,300	3,300	795	795	120 J	120 J	88.0 J	88.0 J	700	700
Indeno(1,2,3-cd)pyrene	73.0 J	73.0 J	130 J	130 J	820	820	19,000	19,000	1,700	1,700	1,180 J	1,180 J	74.0 J	74.0 J	48.0 J	48.0 J	300	300
Pyrene	160 J	160 J	210	210	1,400	1,400	40,000	40,000	3,200	3,200	2,500 J	2,500 J	130 J	130 J	98.0 J	98.0 J	640	640
Total HPAHs (full MDL/MRL)	1,049 J	1,049 J	1,540 J	1,540 J	13,060	13,060	367,900	367,900	17,320 J	17,320 J	16,670 J	16,670 J	891 J	891 J	640 J	640 J	3,452 J	3,452 J
Total HPAHs (KM)	1,049 J	1,049 J	1,511 J	1,511 J	13,060	13,060	367,900	367,900	17,320 J	17,320 J	16,150 J	16,150 J	891 J	891 J	640 J	640 J	3,452 J	3,452 J
Total HPAHs (KM-capped)	1,049 J	1,049 J	1,511 J	1,511 J	13,060	13,060	367,900	367,900	17,320 J	17,320 J	16,150 J	16,150 J	891 J	891 J	640 J	640 J	3,452 J	3,452 J

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

- = Not Analyzed

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-1**  
**Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 2 of 4)**

Site ID	BIL12SSI		BIL13SSI*		BIL17		BIL18		BIL22*		BIL28TPM		BIL29TPM		BIL01USE		BIL02USE	
Sample ID	990921BIL12SS		000413BIL13SS		011016BIL17SS		011016BIL18SS		011016BIL22SS		011017BIL28TPM		011017BIL29TPM		070410BIL01SS		070410BIL02SS	
Sample Date	9/21/1999		4/13/2000		10/16/2001		10/16/2001		10/16/2001		10/17/2001		10/17/2001		4/10/2007		4/10/2007	
Sample Depth (feet bgs)	0-0.5		0-0.5		1		2		3		0-10		0-10		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>																		
2-Methylnaphthalene	180 U	180 U	49.8 U	49.8 U	37.5	37.5	43.4	43.4	2.22 U	14.2 U	1,530	1,530	625	625	20.0 U	20.0 U	20.0 U	20.0 U
Acenaphthene	180 U	180 U	49.8 U	49.8 U	323	323	2,530	2,530	576	576	83.3 U	168 U	168	168	16.0 J	16.0 J	23.0	23.0
Acenaphthylene	180 U	180 U	49.8 U	49.8 U	78.1	78.1	111	111	51.4	51.4	73.4 U	168 U	66.4 U	152 U	20.0 U	20.0 U	20.0 U	20.0 U
Anthracene	180 U	180 U	49.8 U	49.8 U	773	773	8,440	8,440	1,780	1,780	1,750	1,750	503	503	35.0	35.0	65.0	65.0
Fluorene	180 U	180 U	49.8 U	49.8 U	244	244	1,610	1,610	370	370	78.6 U	168 U	71.1 U	152 U	20.0 U	20.0 U	12.0 J	12.0 J
Naphthalene	180 U	180 U	49.8 U	49.8 U	78.1	78.1	176	176	47.8	47.8	791	791	823	823	20.0 U	20.0 U	20.0 U	20.0 U
Phenanthrene	13.0 J	13.0 J	49.8 U	49.8 U	2,910	2,910	21,900	21,900	4,700	4,700	5,020	5,020	1,480	1,480	180	180	300	300
Total LPAHs (full MDL/MRL)	913 J	913 J	299 U	299 U	4,406	4,406	34,767	34,767	7,531 J	7,531 J	7,796 J	8,065 J	3,112 J	3,278 J	291 J	291 J	440 J	440 J
Total LPAHs (KM)	-	-	-	-	4,406	4,406	34,770	34,770	7,530 J	7,530 J	7,782 J	8,064 J	3,107 J	3,278 J	279 J	279 J	424 J	424 J
Total LPAHs (KM, capped)	913 J	913 J	299 U	299 U	4,406	4,406	34,767	34,767	7,531 J	7,531 J	7,782 J	8,064 J	3,107 J	3,278 J	279 J	279 J	424 J	424 J
<b>HPAHs</b>																		
Benzo(a)anthracene	29.0 J	29.0 J	49.8 U	49.8 U	9,620	9,620	28,200	28,200	9,420	9,420	9,780	9,780	92.9 U	305 U	530	530	960	960
Benzo(a)pyrene	28.0 J	28.0 J	49.8 U	49.8 U	10,500	10,500	34,000	34,000	7,700	7,700	7,100	7,100	35.5 U	152 U	600	600	1,200	1,200
Benzo(b)fluoranthene	34.0 J	34.0 J	49.8 U	49.8 U	-	-	-	-	-	-	-	-	-	-	680	680	1,200	1,200
Benzo(g,h,i)perylene	20.0 J	20.0 J	49.8 U	49.8 U	6,150	6,150	17,000	17,000	3,020	3,020	27.8 U	168 U	25.1 U	152 U	280	280	530	530
Benzo(k)fluoranthene	40.0 J	40.0 J	49.8 U	49.8 U	-	-	-	-	-	-	-	-	-	-	450	450	1,100	1,100
Benzofluoranthenes, Total	-	-	-	-	14,700	14,700	31,300	31,300	8,490	8,490	5,100	5,100	1,080	1,080	-	-	-	-
Chrysene	62.0 J	62.0 J	49.8 U	49.8 U	8,430	8,430	35,300 J	35,300 J	8,420	8,420	8,210	8,210	2,060	2,060	670	670	1,200	1,200
Dibenz(a,h)anthracene	18.0 J	18.0 J	49.8 U	49.8 U	695	695	1,940	1,940	573	573	39.2 U	168 U	35.5 U	152 U	71.0	71.0	150	150
Fluoranthene	42.0 J	42.0 J	49.8 U	49.8 U	19,400	19,400	48,300	48,300	17,800	17,800	13,600	13,600	71.1 U	152 U	1,300	1,300	2,100	2,100
Indeno(1,2,3-cd)pyrene	18.0 J	18.0 J	49.8 U	49.8 U	6,990	6,990	20,000	20,000	2,030	2,030	39.2 U	168 U	35.5 U	152 U	270	270	510	510
Pyrene	43.0 J	43.0 J	49.8 UJ	49.8 UJ	22,900	22,900	67,100	67,100	24,200	24,200	15,500	15,500	2,540	2,540	1,200	1,200	2,400	2,400
Total HPAHs (full MDL/MRL)	334 J	334 J	498 UJ	498 UJ	84,685	84,685	251,840 J	251,840 J	73,156	73,156	54,296 J	54,694 J	4,896 J	5,665 J	6,051	6,051	11,350	11,350
Total HPAHs (KM)	334 J	334 J	-	-	84,688	84,688	251,840 J	251,840 J	73,152	73,152	54,272 J	54,696 J	4,750 J	5,512 J	6,051	6,051	11,350	11,350
Total HPAHs (KM-capped)	334 J	334 J	498 UJ	498 UJ	84,685	84,685	251,840 J	251,840 J	73,156	73,156	54,272 J	54,694 J	4,750 J	5,512 J	6,051	6,051	11,350	11,350

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

- = Not Analyzed

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram (µg/kg), dry weight

**Table H-1**  
**Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
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Site ID	BIL03USE		BIL04USE		BIL05USE		BIL06USE		BIL07USE		BIL08USE		BIL09USE		L-01		L-01			
Sample ID	070410BIL03SS		070410BIL04SS		070410BIL05SS		070410BIL06SS		070410BIL07SS		070410BIL08SS		070410BIL09SS		090129-L-L1-0-1So		090129-L-L1-1-3So			
Sample Date	4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		1/29/2009		1/29/2009	
Sample Depth (feet bgs)	0.5		0.5		0.5		0.5		0.5		0.5		0.5		0-1		1-3			
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL		
<b>LPAHs</b>																				
2-Methylnaphthalene	20.0 U	20.0 U	11.0 J	11.0 J	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	59.0 U	20.0 U	20.0 U	20.0 U	20.0 U	-	-	-	-		
Acenaphthene	<b>15.0 J</b>	<b>15.0 J</b>	<b>170</b>	<b>170</b>	20.0 U	20.0 U	<b>24.0</b>	<b>24.0</b>	<b>270</b>	<b>270</b>	<b>46.0</b>	<b>46.0</b>	20.0 U	20.0 U	<b>66.0</b>	<b>66.0</b>	<b>170</b>	<b>170</b>		
Acenaphthylene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	59.0 U	20.0 U	20.0 U	20.0 U	20.0 U	<b>3.40</b>	<b>3.40</b>	<b>12.0</b>	<b>12.0</b>		
Anthracene	<b>30.0</b>	<b>30.0</b>	<b>180</b>	<b>180</b>	<b>15.0 J</b>	<b>15.0 J</b>	<b>34.0</b>	<b>34.0</b>	<b>740</b>	<b>740</b>	<b>110</b>	<b>110</b>	<b>30.0</b>	<b>30.0</b>	<b>99.0</b>	<b>99.0</b>	<b>400</b>	<b>400</b>		
Fluorene	20.0 U	20.0 U	<b>73.0</b>	<b>73.0</b>	20.0 U	20.0 U	<b>13.0 J</b>	<b>13.0 J</b>	<b>140</b>	<b>140</b>	<b>24.0</b>	<b>24.0</b>	<b>10.0 J</b>	<b>10.0 J</b>	<b>33.0</b>	<b>33.0</b>	<b>99.0</b>	<b>99.0</b>		
Naphthalene	20.0 U	20.0 U	<b>20.0</b>	<b>20.0</b>	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	59.0 U	20.0 U	20.0 U	20.0 U	20.0 U	<b>5.00</b>	<b>5.00</b>	<b>22.0</b>	<b>22.0</b>		
Phenanthrene	<b>200</b>	<b>200</b>	<b>1,500</b>	<b>1,500</b>	<b>66.0</b>	<b>66.0</b>	<b>180</b>	<b>180</b>	<b>3,000</b>	<b>3,000</b>	<b>550</b>	<b>550</b>	<b>160</b>	<b>160</b>	<b>350</b>	<b>350</b>	<b>1,500</b>	<b>1,500</b>		
Total LPAHs (full MDL/MRL)	<b>305 J</b>	<b>305 J</b>	<b>1,963 J</b>	<b>1,963 J</b>	<b>161 J</b>	<b>161 J</b>	<b>291 J</b>	<b>291 J</b>	<b>4,268 J</b>	<b>4,268 J</b>	<b>770 J</b>	<b>770 J</b>	<b>260 J</b>	<b>260 J</b>	<b>556</b>	<b>556</b>	<b>2,203</b>	<b>2,203</b>		
Total LPAHs (KM)	<b>290 J</b>	<b>290 J</b>	<b>1,963 J</b>	<b>1,963 J</b>	<b>141 J</b>	<b>141 J</b>	<b>277 J</b>	<b>277 J</b>	<b>4,268 J</b>	<b>4,268 J</b>	<b>770 J</b>	<b>770 J</b>	<b>230 J</b>	<b>230 J</b>	<b>556</b>	<b>556</b>	<b>2,203</b>	<b>2,203</b>		
Total LPAHs (KM, capped)	<b>290 J</b>	<b>290 J</b>	<b>1,963 J</b>	<b>1,963 J</b>	<b>141 J</b>	<b>141 J</b>	<b>277 J</b>	<b>277 J</b>	<b>4,268 J</b>	<b>4,268 J</b>	<b>770 J</b>	<b>770 J</b>	<b>230 J</b>	<b>230 J</b>	<b>556</b>	<b>556</b>	<b>2,203</b>	<b>2,203</b>		
<b>HPAHs</b>																				
Benzo(a)anthracene	<b>330</b>	<b>330</b>	<b>1,000</b>	<b>1,000</b>	<b>78.0</b>	<b>78.0</b>	<b>250</b>	<b>250</b>	<b>4,500</b>	<b>4,500</b>	<b>1,000</b>	<b>1,000</b>	<b>180</b>	<b>180</b>	<b>690</b>	<b>690</b>	<b>4,500</b>	<b>4,500</b>		
Benzo(a)pyrene	<b>360</b>	<b>360</b>	<b>1,600</b>	<b>1,600</b>	<b>85.0</b>	<b>85.0</b>	<b>240</b>	<b>240</b>	<b>6,200</b>	<b>6,200</b>	<b>1,300</b>	<b>1,300</b>	<b>140</b>	<b>140</b>	<b>820</b>	<b>820</b>	<b>5,800</b>	<b>5,800</b>		
Benzo(b)fluoranthene	<b>420</b>	<b>420</b>	<b>1,600</b>	<b>1,600</b>	<b>110</b>	<b>110</b>	<b>310</b>	<b>310</b>	<b>8,200</b>	<b>8,200</b>	<b>1,500</b>	<b>1,500</b>	<b>170</b>	<b>170</b>	<b>990</b>	<b>990</b>	<b>7,100</b>	<b>7,100</b>		
Benzo(g,h,i)perylene	<b>210</b>	<b>210</b>	<b>870</b>	<b>870</b>	<b>67.0</b>	<b>67.0</b>	<b>160</b>	<b>160</b>	<b>1,800</b>	<b>1,800</b>	<b>480</b>	<b>480</b>	<b>75.0</b>	<b>75.0</b>	<b>460</b>	<b>460</b>	<b>3,300</b>	<b>3,300</b>		
Benzo(k)fluoranthene	<b>310</b>	<b>310</b>	<b>1,200</b>	<b>1,200</b>	<b>77.0</b>	<b>77.0</b>	<b>220</b>	<b>220</b>	<b>2,500</b>	<b>2,500</b>	<b>990</b>	<b>990</b>	<b>130</b>	<b>130</b>	<b>310</b>	<b>310</b>	<b>2,400</b>	<b>2,400</b>		
Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	<b>450</b>	<b>450</b>	<b>1,300</b>	<b>1,300</b>	<b>96.0</b>	<b>96.0</b>	<b>280</b>	<b>280</b>	<b>5,900</b>	<b>5,900</b>	<b>1,400</b>	<b>1,400</b>	<b>190</b>	<b>190</b>	<b>790</b>	<b>790</b>	<b>5,000</b>	<b>5,000</b>		
Dibenz(a,h)anthracene	<b>55.0</b>	<b>55.0</b>	<b>240</b>	<b>240</b>	<b>29.0</b>	<b>29.0</b>	<b>76.0</b>	<b>76.0</b>	<b>730</b>	<b>730</b>	<b>160</b>	<b>160</b>	<b>18.0 J</b>	<b>18.0 J</b>	<b>130</b>	<b>130</b>	<b>970</b>	<b>970</b>		
Fluoranthene	<b>580</b>	<b>580</b>	<b>2,700</b>	<b>2,700</b>	<b>150</b>	<b>150</b>	<b>460</b>	<b>460</b>	<b>14,000</b>	<b>14,000</b>	<b>2,800</b>	<b>2,800</b>	<b>300</b>	<b>300</b>	<b>1,200</b>	<b>1,200</b>	<b>7,700</b>	<b>7,700</b>		
Indeno(1,2,3-cd)pyrene	<b>200</b>	<b>200</b>	<b>780</b>	<b>780</b>	<b>58.0</b>	<b>58.0</b>	<b>160</b>	<b>160</b>	<b>2,100</b>	<b>2,100</b>	<b>530</b>	<b>530</b>	<b>74.0</b>	<b>74.0</b>	<b>620</b>	<b>620</b>	<b>4,500</b>	<b>4,500</b>		
Pyrene	<b>730</b>	<b>730</b>	<b>3,100</b>	<b>3,100</b>	<b>130</b>	<b>130</b>	<b>360</b>	<b>360</b>	<b>9,100</b>	<b>9,100</b>	<b>2,900</b>	<b>2,900</b>	<b>240 J</b>	<b>240 J</b>	<b>1,200</b>	<b>1,200</b>	<b>7,500</b>	<b>7,500</b>		
Total HPAHs (full MDL/MRL)	<b>3,645</b>	<b>3,645</b>	<b>14,390</b>	<b>14,390</b>	<b>880</b>	<b>880</b>	<b>2,516</b>	<b>2,516</b>	<b>55,030</b>	<b>55,030</b>	<b>13,060</b>	<b>13,060</b>	<b>1,517 J</b>	<b>1,517 J</b>	<b>7,210</b>	<b>7,210</b>	<b>48,770</b>	<b>48,770</b>		
Total HPAHs (KM)	<b>3,645</b>	<b>3,645</b>	<b>14,390</b>	<b>14,390</b>	<b>880</b>	<b>880</b>	<b>2,516</b>	<b>2,516</b>	<b>55,030</b>	<b>55,030</b>	<b>13,060</b>	<b>13,060</b>								

**Table H-1**  
**Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 4 of 4)**

Site ID	L-02		L-02		L-03		L-03		L-04*		L-04	
Sample ID	090129-L-L2-0-1So	090129-L-L2-1-3So	090129-L-L3-0-1So	090129-L-L3-1-3So	090129-L-L4-0-1So	090129-L-L4-1-3So	090129-L-L4-0-1So	090129-L-L4-1-3So	090129-L-L4-0-1So	090129-L-L4-1-3So	090129-L-L4-0-1So	090129-L-L4-1-3So
Sample Date	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009	1/29/2009
Sample Depth (feet bgs)	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3	0-1	1-3
Censoring Level for Undetected Results	MDL	MRL										
<b>LPAHs</b>												
2-Methylnaphthalene	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	220	220	1,900	1,900	700	700	360	360	1,160	1,160	420	420
Acenaphthylene	15.0	15.0	41.0	41.0	13.0	13.0	15.0	15.0	19.0	19.0	13.0	13.0
Anthracene	650	650	2,100	2,100	880	880	900	900	1,070	1,070	740	740
Fluorene	130	130	630	630	340	340	210	210	510	510	240	240
Naphthalene	14.0	14.0	140	140	49.0	49.0	49.0	49.0	79.0	79.0	57.0	57.0
Phenanthrene	2,000	2,000	7,400	7,400	3,400	3,400	2,800	2,800	4,200	4,200	2,800	2,800
Total LPAHs (full MDL/MRL)	3,029	3,029	12,211	12,211	5,382	5,382	4,334	4,334	7,043	7,043	4,270	4,270
Total LPAHs (KM)	3,029	3,029	12,210	12,210	5,382	5,382	4,334	4,334	7,044	7,044	4,270	4,270
Total LPAHs (KM, capped)	3,029	3,029	12,211	12,211	5,382	5,382	4,334	4,334	7,043	7,043	4,270	4,270
<b>HPAHs</b>												
Benzo(a)anthracene	4,100	4,100	11,000	11,000	4,500	4,500	4,800	4,800	4,500	4,500	4,800	4,800
Benzo(a)pyrene	4,700	4,700	16,000	16,000	5,900	5,900	5,800	5,800	5,800	5,800	6,200	6,200
Benzo(b)fluoranthene	5,700	5,700	16,000	16,000	6,400	6,400	6,500	6,500	6,500	6,500	7,200	7,200
Benzo(g,h,i)perylene	2,500	2,500	9,500	9,500	3,300	3,300	3,100	3,100	3,250	3,250	3,500	3,500
Benzo(k)fluoranthene	2,000	2,000	5,900	5,900	2,300	2,300	2,400	2,400	2,300	2,300	2,500	2,500
Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	4,900	4,900	14,000	14,000	5,000	5,000	5,400	5,400	5,150	5,150	5,600	5,600
Dibenz(a,h)anthracene	710	710	2,300	2,300	1,000	1,000	900	900	900	900	1,100	1,100
Fluoranthene	7,000	7,000	21,000	21,000	8,200	8,200	8,700	8,700	8,700	8,700	8,600	8,600
Indeno(1,2,3-cd)pyrene	3,500	3,500	13,000	13,000	4,600	4,600	4,400	4,400	4,450	4,450	4,900	4,900
Pyrene	6,700	6,700	21,000	21,000	7,900	7,900	9,400	9,400	8,150	8,150	8,600	8,600
Total HPAHs (full MDL/MRL)	41,810	41,810	129,700	129,700	49,100	49,100	51,400	51,400	49,700	49,700	53,000	53,000
Total HPAHs (KM)	41,810	41,810	129,700	129,700	49,100	49,100	51,400	51,400	49,700	49,700	53,000	53,000
Total HPAHs (KM-capped)	41,810	41,810	129,700	129,700	49,100	49,100	51,400	51,400	49,700	49,700	53,000	53,000

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

- = Not Analyzed

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-2**  
**Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 1 of 4)**

Site ID	DSA01		DSA02		DSA03		DSA04		DSA05		DSA06		DSA07		DSA08		DSA09		DSA10	
Sample ID	011204DSA01SS		011204DSA02SS		011204DSA03SS		011204DSA04SS		011204DSA05SS		011204DSA06SS		011204DSA07SS		011204DSA08SS		011204DSA09SS		011204DSA10SS	
Sample Date	12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001	
Sample Depth (feet bgs)	0		0		0		0		0		0		0		0		0		0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL														
<b>LPAHs</b>																				
2-Methylnaphthalene	0.191 U	1.23 U	0.183 U	1.17 U	0.205 U	1.31 U	0.221 U	1.41 U	0.217 U	1.39 U	<b>2.98</b>	<b>2.98</b>	0.203 U	1.30 U	0.191 U	1.22 U	0.225 U	1.44 U	2.28 U	14.6 U
Acenaphthene	0.607 U	1.23 U	<b>6.44</b>	<b>6.44</b>	0.649 U	1.31 U	0.700 U	1.41 U	<b>4.46</b>	<b>4.46</b>	0.738 U	1.49 U	<b>2.60</b>	<b>2.60</b>	<b>2.81</b>	<b>2.81</b>	<b>15.4</b>	<b>15.4</b>	<b>29.3</b>	<b>29.3</b>
Acenaphthylene	0.535 U	1.23 U	0.510 U	1.17 U	<b>3.67</b>	<b>3.67</b>	0.616 U	1.41 U	0.607 U	1.39 U	0.650 U	1.49 U	0.567 U	1.30 U	0.533 U	1.22 U	0.629 U	1.44 U	6.38 U	14.6 U
Anthracene	<b>1.72</b>	<b>1.72</b>	<b>4.21</b>	<b>4.21</b>	<b>5.25</b>	<b>5.25</b>	0.356 U	1.41 U	9.19	9.19	<b>11.3</b>	<b>11.3</b>	<b>2.08</b>	<b>2.08</b>	<b>2.20</b>	<b>2.20</b>	<b>18.0</b>	<b>18.0</b>	<b>80.5</b>	<b>80.5</b>
Fluorene	0.573 U	1.23 U	<b>2.46</b>	<b>2.46</b>	<b>3.02</b>	<b>3.02</b>	0.660 U	1.41 U	3.06	3.06	<b>7.01</b>	<b>7.01</b>	<b>1.69</b>	<b>1.69</b>	<b>1.83</b>	<b>1.83</b>	<b>7.65</b>	<b>7.65</b>	<b>24.9</b>	<b>24.9</b>
Naphthalene	0.574 U	1.23 U	0.548 U	1.17 U	<b>1.70</b>	<b>1.70</b>	0.662 U	1.41 U	1.95	1.95	<b>4.17</b>	<b>4.17</b>	0.609 U	1.30 U	0.572 U	1.22 U	0.676 U	1.44 U	6.85 U	14.6 U
Phenanthrene	<b>5.64</b>	<b>5.64</b>	<b>19.4</b>	<b>19.4</b>	<b>21.8</b>	<b>21.8</b>	<b>5.80</b>	<b>5.80</b>	31.3	31.3	<b>49.8</b>	<b>49.8</b>	<b>11.3</b>	<b>11.3</b>	<b>13.6</b>	<b>13.6</b>	<b>59.0</b>	<b>59.0</b>	<b>345</b>	<b>345</b>
Total LPAHs (full MDL/MRL)	<b>9.65 J</b>	<b>12.3 J</b>	<b>33.6 J</b>	<b>34.9 J</b>	<b>36.1 J</b>	<b>36.8 J</b>	<b>8.79 J</b>	<b>12.9 J</b>	<b>50.6 J</b>	<b>51.4 J</b>	<b>73.7 J</b>	<b>75.3 J</b>	<b>18.8 J</b>	<b>20.3 J</b>	<b>21.5 J</b>	<b>22.9 J</b>	<b>101 J</b>	<b>103 J</b>	<b>493 J</b>	<b>509 J</b>
Total LPAHs (KM)	<b>9.50 J</b>	<b>12.3 J</b>	<b>33.5 J</b>	<b>34.8 J</b>	<b>36.1 J</b>	<b>36.8 J</b>	-	-	<b>50.6 J</b>	<b>51.3 J</b>	<b>73.6 J</b>	<b>75.2 J</b>	<b>18.8 J</b>	<b>20.3 J</b>	<b>21.5 J</b>	<b>22.9 J</b>	<b>101 J</b>	<b>103 J</b>	<b>492 J</b>	<b>509 J</b>
Total LPAHs (KM, capped)	<b>9.50 J</b>	<b>12.3 J</b>	<b>33.5 J</b>	<b>34.8 J</b>	<b>36.1 J</b>	<b>36.8 J</b>	<b>8.79 J</b>	<b>12.9 J</b>	<b>50.6 J</b>	<b>51.3 J</b>	<b>73.6 J</b>	<b>75.2 J</b>	<b>18.8 J</b>	<b>20.3 J</b>	<b>21.5 J</b>	<b>22.9 J</b>	<b>101 J</b>	<b>103 J</b>	<b>492 J</b>	<b>509 J</b>
<b>HPAHs</b>																				
Benzo(a)anthracene	0.749 U	2.45 U	<b>15.0</b>	<b>15.0</b>	<b>15.6</b>	<b>15.6</b>	<b>3.96</b>	<b>3.96</b>	<b>66.6</b>	<b>66.6</b>	<b>29.5</b>	<b>29.5</b>	<b>7.28</b>	<b>7.28</b>	<b>16.5</b>	<b>16.5</b>	<b>46.3</b>	<b>46.3</b>	<b>398</b>	<b>398</b>
Benzo(a)pyrene	<b>10.2</b>	<b>10.2</b>	<b>20.4</b>	<b>20.4</b>	<b>20.3</b>	<b>20.3</b>	<b>7.49</b>	<b>7.49</b>	<b>151</b>	<b>151</b>	<b>43.5</b>	<b>43.5</b>	<b>14.0</b>	<b>14.0</b>	<b>25.4</b>	<b>25.4</b>	<b>52.0</b>	<b>52.0</b>	<b>435</b>	<b>435</b>
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	0.202 U	1.23 U	<b>9.72</b>	<b>9.72</b>	0.216 U	1.31 U	0.233 U	1.41 U	<b>107</b>	<b>107</b>	0.246 U	1.49 U	<b>6.89</b>	<b>6.89</b>	<b>13.7</b>	<b>13.7</b>	<b>21.2</b>	<b>21.2</b>	<b>195</b>	<b>195</b>
Benzo(k)fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
'Benzofluoranthenes, Total	<b>13.5</b>	<b>13.5</b>	<b>26.3</b>	<b>26.3</b>	<b>35.8</b>	<b>35.8</b>	<b>10.2</b>	<b>10.2</b>	<b>175</b>	<b>175</b>	<b>74.2</b>	<b>74.2</b>	<b>17.8</b>	<b>17.8</b>	<b>36.3</b>	<b>36.3</b>	<b>72.2</b>	<b>72.2</b>	<b>682</b>	<b>682</b>
Chrysene	<b>6.50</b>	<b>6.50</b>	<b>16.3</b>	<b>16.3</b>	<b>22.8</b>	<b>22.8</b>	<b>6.36</b>	<b>6.36</b>	<b>68.4</b>	<b>68.4</b>	<b>45.9</b>	<b>45.9</b>	<b>9.89</b>	<b>9.89</b>	<b>20.3</b>	<b>20.3</b>	<b>56.6</b>	<b>56.6</b>	<b>465</b>	<b>465</b>
Dibenz(a,h)anthracene	0.286 U	1.23 U	0.273 U	1.17 U	0.306 U	1.31 U	0.329 U	1.41 U	<b>25.8</b>	<b>25.8</b>	0.347 U	1.49 U	0.303 U	1.30 U	0.285 U	1.22 U	0.336 U	1.44 U	3.41 U	14.6 U
Fluoranthene	<b>8.47</b>	<b>8.47</b>	<b>31.6</b>	<b>31.6</b>	<b>35.4</b>	<b>35.4</b>	<b>10.0</b>	<b>10.0</b>	<b>75.9</b>	<b>75.9</b>	<b>62.9</b>	<b>62.9</b>	<b>19.0</b>	<b>19.0</b>	<b>27.2</b>	<b>27.2</b>	<b>98.2</b>	<b>98.2</b>	<b>806</b>	<b>806</b>
Indeno(1,2,3-cd)pyrene	0.286 U	1.23 U	<b>11.1</b>	<b>11.1</b>	<b>14.3</b>	<b>14.3</b>	<b>3.68</b>	<b>3.68</b>	<b>97.8</b>	<b>97.8</b>	0.347 U	1.49 U	<b>7.02</b>	<b>7.02</b>	<b>14.3</b>	<b>14.3</b>	<b>21.1</b>	<b>21.1</b>	<b>202</b>	<b>202</b>
Pyrene	<b>11.0</b>	<b>11.0</b>	<b>31.0</b>	<b>31.0</b>	<b>32.3</b>	<b>32.3</b>	<b>10.0</b>	<b>10.0</b>	<b>83.8</b>	<b>83.8</b>	<b>68.6</b>	<b>68.6</b>	<b>21.2</b>	<b>21.2</b>	<b>35.1</b>	<b>35.1</b>	<b>106</b>	<b>106</b>	<b>844</b>	<b>844</b>
Total HPAHs (full MDL/MRL)	<b>37.7 J</b>	<b>42.3 J</b>	<b>135 J</b>	<b>136 J</b>	<b>141 J</b>	<b>143 J</b>	<b>42.1 J</b>	<b>44.3 J</b>	<b											

**Table H-2**  
**Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 2 of 4)**

Site ID	DSA11*	DSA12*	SBB18	HA1*	HA2	HA3	HA4	HA5	HA9	HA10
Sample ID	011204DSA11SS	011204DSA12SS	011205SBB20SS	041122SGA14SS	041122SGA16SS	041122SGA17SS	041122SGA21SS	041122SGA23SS	041123SGA28SS	041123SGA29SS
Sample Date	12/4/2001	12/4/2001	12/5/2001	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/22/2004	11/23/2004	11/23/2004
Sample Depth (feet bgs)	0	0	2.5	0.5	0.5	0.5	3	3	0.5	0.5
Censoring Level for Undetected Results	MDL	MRL								
<b>LPAHs</b>										
2-Methylnaphthalene	22.9	22.9	150	150	124 J	124 J	4.84 J	4.84 J	2.53 J	2.53 J
Acenaphthene	132	132	470	470	3,200 J	3,200 J	10.9	10.9	16.1	16.1
Acenaphthylene	27.6	27.6	87.7	87.7	295 J	295 J	4.33	4.33	4.65	4.65
Anthracene	304	304	822	822	2,040 J	2,040 J	14.7	14.7	21.3	21.3
Fluorene	94.6	94.6	462	462	779 J	779 J	8.53	8.53	10.5	10.5
Naphthalene	26.8	26.8	227	227	256 J	256 J	4.11	4.11	0.934 U	2.11 U
Phenanthrene	1,050	1,050	3,020	3,020	6,550 J	6,550 J	116 J	116 J	115	115
Total LPAHs (full MDL/MRL)	1,639	1,639	5,089	5,089	13,120 J	13,120 J	158 J	158 J	168 J	170 J
Total LPAHs (KM)	1,639	1,639	5,089	5,089	13,122 J	13,122 J	158 J	158 J	168 J	170 J
Total LPAHs (KM, capped)	1,639	1,639	5,089	5,089	13,120 J	13,120 J	158 J	158 J	168 J	170 J
<b>HPAHs</b>										
Benzo(a)anthracene	1,640	1,640	1,320	1,320	12,300 J	12,300 J	183 J	183 J	114 J	114 J
Benzo(a)pyrene	2,040	2,040	1,580	1,580	11,700 J	11,700 J	160	160	108	108
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	1,010	1,010	558	558	3,350 J	3,350 J	94.6 J	94.6 J	61.9 J	61.9 J
Benzo(k)fluoranthene	-	-	-	-	-	-	-	-	-	-
'Benzofluoranthenes, Total	2,840	2,840	1,850	1,850	16,300 J	16,300 J	290	290	212	212
Chrysene	1,640	1,640	1,620	1,620	12,000 J	12,000 J	224	224	129	129
Dibenz(a,h)anthracene	418	418	216	216	1,080 J	1,080 J	34.2 J	34.2 J	25.4 J	25.4 J
Fluoranthene	2,290	2,290	2,610	2,610	28,600 J	28,600 J	218	218	216	216
Indeno(1,2,3-cd)pyrene	998	998	546	546	4,170 J	4,170 J	83.6 J	83.6 J	60.8 J	60.8 J
Pyrene	2,480	2,480	3,480	3,480	32,000 J	32,000 J	366 J	366 J	217	217
Total HPAHs (full MDL/MRL)	12,525	12,525	11,941	11,941	105,200 J	105,200 J	1,364 J	1,364 J	932 J	932 J
Total HPAHs (KM)	12,528	12,528	11,944	11,944	105,200 J	105,200 J	1,364 J	1,364 J	932 J	932 J
Total HPAHs (KM-capped)	12,525	12,525	11,941	11,941	105,200 J	105,200 J	1,364 J	1,364 J	932 J	932 J

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

- = Not Analyzed

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-2**  
**Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 3 of 4)**

Site ID	HA11		HA11		LD-01		LD-01		LD-02		LD-02		LD-03		LD-03		LD-04		LD-04	
Sample ID	041123SGA30SS		041123SGA31SS		090320-LD-1So-0-1		090320-LD-1So-1-3		090320-LD-2So-0-1		090320-LD-2So-1-3		090320-LD-3So-0-1		090320-LD-3So-1-3		090320-LD-4So-0-1		090320-LD-4So-1-3	
Sample Date	11/23/2004		11/23/2004		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009	
Sample Depth (feet bgs)	1		3		0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>																				
2-Methylnaphthalene	0.641 U	2.46 U	0.656 U	2.52 U	40.0 J	40.0 J	1.20 U	6.90 U	40.0 J	40.0 J	3.30 J	3.30 J	43.0 J	43.0 J	1.20 U	6.80 U	1.20 U	6.40 U	1.20 U	6.50 U
Acenaphthene	<b>5.88</b>	<b>5.88</b>	0.648 U	2.52 U	<b>160 J</b>	<b>160 J</b>	<b>1.10 J</b>	<b>1.10 J</b>	140 J	140 J	9.00	9.00	430	430	<b>4.10 J</b>	<b>4.10 J</b>	<b>1.50 J</b>	<b>1.50 J</b>	1.00 U	6.50 U
Acenaphthylene	0.726 U	2.46 U	0.744 U	2.52 U	35.0 U	180 U	1.40 U	6.90 U	37.0 J	37.0 J	1.40 U	6.80 U	35.0 U	170 U	1.40 U	6.80 U	1.40 U	6.40 U	1.40 U	6.50 U
Anthracene	<b>8.55</b>	<b>8.55</b>	0.480 U	2.52 U	330	330	<b>1.80 J</b>	<b>1.80 J</b>	280	280	14.0	14.0	780	780	11.0	11.0	<b>2.00 J</b>	<b>2.00 J</b>	1.40 U	6.50 U
Fluorene	7.13	7.13	0.816 U	2.52 U	130 J	130 J	1.70 U	6.90 U	120 J	120 J	9.70	9.70	380	380	3.80 J	3.80 J	1.70 U	6.40 U	1.70 U	6.50 U
Naphthalene	<b>2.50</b>	<b>2.50</b>	1.12 U	2.52 U	<b>66.0 J</b>	<b>66.0 J</b>	1.30 U	6.90 U	69.0 J	69.0 J	6.30 J	6.30 J	62.0 J	62.0 J	2.20 J	2.20 J	1.30 U	6.40 U	1.30 U	6.50 U
Phenanthrene	<b>24.8</b>	<b>24.8</b>	0.750 U	2.52 U	1,900	1,900	15.0	15.0	1,900	1,900	71.0	71.0	4,000	4,000	59.0	59.0	16.0	16.0	1.30 U	6.50 U
Total LPAHs (full MDL/MRL)	<b>49.6 J</b>	<b>51.3 J</b>	4.56 U	15.1 U	<b>2,621 J</b>	<b>2,766 J</b>	22.3 J	38.6 J	<b>2,546 J</b>	<b>2,546 J</b>	111 J	117 J	<b>5,687 J</b>	<b>5,822 J</b>	81.5 J	86.9 J	23.9 J	38.7 J	8.10 U	39.0 U
Total LPAHs (KM)	<b>49.6 J</b>	<b>51.3 J</b>	-	-	<b>2,621 J</b>	<b>2,705 J</b>	21.2 J	22.2 J	<b>2,546 J</b>	<b>2,546 J</b>	111 J	116 J	<b>5,687 J</b>	<b>5,714 J</b>	81.5 J	83.5 J	23.5 J	24.8 J	-	-
Total LPAHs (KM, capped)	<b>49.6 J</b>	<b>51.3 J</b>	4.56 U	15.1 U	<b>2,621 J</b>	<b>2,705 J</b>	21.198 J	22.2 J	<b>2,546 J</b>	<b>2,546 J</b>	111 J	116 J	<b>5,687 J</b>	<b>5,714 J</b>	81.5 J	83.5 J	23.5 J	24.8 J	8.10 U	39.0 U
<b>HPAHs</b>																				
Benzo(a)anthracene	<b>48.3 J</b>	<b>48.3 J</b>	1.28 U	2.52 U	1,500	1,500	15.0	15.0	2,700	2,700	37.0	37.0	2,100	2,100	71.0	71.0	27.0	27.0	1.40 U	6.50 U
Benzo(a)pyrene	<b>40.4</b>	<b>40.4</b>	0.799 U	2.52 U	1,400	1,400	19.0	19.0	2,800	2,800	35.0	35.0	1,900	1,900	72.0	72.0	38.0	38.0	1.60 U	6.50 U
Benzo(b)fluoranthene	-	-	-	-	2,000	2,000	27.0	27.0	4,100	4,100	45.0	45.0	2,600	2,600	100	100	53.0	53.0	2.50 U	6.50 U
Benzo(g,h,i)perylene	<b>29.8 J</b>	<b>29.8 J</b>	0.607 U	2.52 U	950	950	21.0	21.0	2,000	2,000	33.0	33.0	1,100	1,100	54.0	54.0	42.0	42.0	2.30 U	6.50 U
Benzo(k)fluoranthene	-	-	-	-	770	770	10.0	10.0	1,400	1,400	16.0	16.0	880	880	36.0	36.0	19.0	19.0	2.50 U	6.50 U
'Benzofluoranthenes, Total	<b>73.4</b>	<b>73.4</b>	1.14 U	5.05 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	<b>85.8</b>	<b>85.8</b>	0.903 U	2.52 U	1,900	1,900	21.0	21.0	3,500	3,500	42.0	42.0	2,300	2,300	85.0	85.0	39.0	39.0	1.80 J	1.80 J
Dibenz(a,h)anthracene	<b>1.23 J</b>	<b>1.23 J</b>	0.784 U	2.52 U	270	270	<b>4.40 J</b>	<b>4.40 J</b>	640	640	7.00	7.00	350	350	15.0	15.0	9.70	9.70	2.20 U	6.50 U
Fluoranthene	<b>52.7</b>	<b>52.7</b>	1.28 U	2.52 U	3,100	3,100	29.0	29.0	4,700	4,700	71.0	71.0	5,000	5,000	130	130	36.0	36.0	2.20 U	6.50 U
Indeno(1,2,3-cd)pyrene	<b>26.5 J</b>	<b>26.5 J</b>	0.576 U	2.52 U	1,100	1,100	16.0	16.0	2,200	2,200	25.0	25.0	1,300	1,300	55.0	55.0	35.0	35.0	1.90 U	6.50 U
Pyrene	<b>51.6</b>	<b>51.6</b>	0.429 U	2.52 U	2,800	2,800	29.0	29.0	4,400	4,400	76.0	76.0	4,200	4,200	120	120	47.0	47.0	<b>2.10 J</b>	<b>2.10 J</b>
Total HPAHs (full MDL/MRL)	<b>336 J</b>	<b>336 J</b>	6.66 U	20.2 U	15,790	15,790	191 J	191 J	28,440	28,440	387	387	21,730	21,730	738	738	346	346	20.5 J	55.9 J
Total HPAHs (KM)	<b>336 J</b>	<b>336 J</b>	-	-	15,790	15,790	191 J	191 J	28,440	28,440	387	387	21,730	21,730	738	738	346	346	16.5 J	19.5 J
Total HPAHs (KM-capped)	<b>336 J</b>	<b>336 J</b>	6.66 U	20.2 U	15,790	15,790	191 J	191 J	28,440	28,440	387	387	21,730	21,730	738	738	346	346	16.5 J	19.5 J

**Notes:**

MDL = method detection limit

J = The reported value is an estimate.

MRL = method reporting limit

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

**bold** = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

PAH = Polycyclic Aromatic Hydrocarbons

KM = Kaplan-Meier-based with Efron's bias correction

LPAH = Low Molecular Weight PAH

**Table H-2**  
**Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results**  
**(Page 4 of 4)**

Site ID	LD-05		LD-05		LD-06		LD-07		LD-08		LD-09		LD-10		LD-11*		SB-EUA*		SB-EUB	
Sample ID	090320-LD-5So-0-1	090320-LD-5So-1-3	090319-LD-6-So	090319-LD-7-So	090319-LD-8-So	090319-LD-9-So	090319-LD-10-So	090319-LD-11-So	090318-SB-EUA-So	090318-SB-EUB-So										
Sample Date	3/20/2009	3/20/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/18/2009	3/18/2009									
Sample Depth (feet bgs)	0-1	1-3	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17		
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>																				
2-Methylnaphthalene	6.90	6.90	1.20 U	6.40 U	29.0 J	29.0 J	27.0 J	27.0 J	1.20 U	10.0 U	2.80 J	2.80 J	36.0 J	36.0 J	7.60 J	7.60 J	30.0 U	160 U	60.0 U	340 U
Acenaphthene	30.0	30.0	4.70 J	4.70 J	210	210	110	110	1.00 U	10.0 U	14.0	14.0	99.0 J	99.0 J	20.0	20.0	34.5 J	34.5 J	68.0 J	68.0 J
Acenaphthylene	4.60 J	4.60 J	1.40 U	6.40 U	15.0 J	15.0 J	31.0 J	31.0 J	1.40 U	10.0 U	2.60 J	2.60 J	25.0 J	25.0 J	3.15 J	3.15 J	35.0 U	160 U	70.0 U	340 U
Anthracene	90.0	90.0	13.0	13.0	220	220	270	270	2.90 J	2.90 J	29.0	29.0	170	170	55.0	55.0	53.5 J	53.5 J	150 J	150 J
Fluorene	29.0	29.0	5.20 J	5.20 J	130	130	130	130	1.70 U	10.0 U	13.0	13.0	75.0 J	75.0 J	17.5	17.5	43.0 U	160 U	85.0 U	340 U
Naphthalene	8.90	8.90	4.00 J	4.00 J	78.0 J	78.0 J	41.0 J	41.0 J	3.90 J	3.90 J	6.70 J	6.70 J	45.0 J	45.0 J	8.75 J	8.75 J	33.0 U	160 U	65.0 U	340 U
Phenanthrene	460	460	79.0	79.0	1,100	1,100	1,800	1,800	16.0	16.0	180	180	810	810	260	260	360	360	940	940
Total LPAHs (full MDL/MRL)	623 J	623 J	107 J	112 J	1,753 J	1,753 J	2,382 J	2,382 J	26.9 J	52.8 J	245 J	245 J	1,224 J	1,224 J	364 J	364 J	559 J	928 J	1,378 J	2,178 J
Total LPAHs (KM)	623 J	623 J	107 J	111 J	1,753 J	1,753 J	2,382 J	2,382 J	25.8 J	33.0 J	245 J	245 J	1,224 J	1,224 J	364 J	364 J	549 J	580 J	1,356 J	1,485 J
Total LPAHs (KM, capped)	623 J	623 J	107 J	111 J	1,753 J	1,753 J	2,382 J	2,382 J	25.8 J	33.0 J	245 J	245 J	1,224 J	1,224 J	364 J	364 J	549 J	580 J	1,356 J	1,485 J
<b>HPAHs</b>																				
Benzo(a)anthracene	530	530	96.0	96.0	960	960	1,800	1,800	16.0	16.0	190	190	660	660	275	275	455	455	1,200	1,200
Benzo(a)pyrene	450	450	86.0	86.0	1,100	1,100	1,600	1,600	17.0	17.0	200	200	670	670	265	265	435	435	1,000	1,000
Benzo(b)fluoranthene	640	640	120	120	1,500	1,500	2,600	2,600	25.0	25.0	290	290	1,100	1,100	365	365	645	645	1,600	1,600
Benzo(g,h,i)perylene	280	280	54.0	54.0	820	820	1,100	1,100	11.0	11.0	120	120	440	440	165	165	270	270	590	590
Benzo(k)fluoranthene	220	220	45.0	45.0	560	560	860	860	8.30 J	8.30 J	89.0	89.0	360	360	125	125	230	230	570	570
'Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	620	620	120	120	1,100	1,100	2,100	2,100	20.0	20.0	220	220	870	870	305	305	575	575	1,500	1,500
Dibenz(a,h)anthracene	91.0	91.0	18.0	18.0	240	240	350	350	2.20 U	10.0 U	38.0	38.0	130	130	47.0	47.0	95.5 J	95.5 J	220 J	220 J
Fluoranthene	1,100	1,100	170	170	1,700	1,700	3,300	3,300	31.0	31.0	350	350	1,300	1,300	555	555	825	825	2,100	2,100
Indeno(1,2,3-cd)pyrene	320	320	60.0	60.0	880	880	1,200	1,200	12.0	12.0	130	130	450	450	180	180	300	300	690	690
Pyrene	950	950	150	150	1,600	1,600	2,800	2,800	28.0	28.0	310	310	1,300	1,300	500	500	775	775	1,900	1,900
Total HPAHs (full MDL/MRL)	5,201	5,201	919	919	10,460	10,460	17,710	17,710	171 J	178 J	1,937	1,937	7,280	7,280	2,782	2,782	4,606 J	4,606 J	11,370 J	11,370 J
Total HPAHs (KM)	5,201	5,201	919	919	10,460	10,460	17,710	17,710	171 J	177 J	1,937	1,937	7,280	7,280	2,782	2,782	4,606 J	4,606 J	11,370 J	11,370 J
Total HPAHs (KM-capped)	5,201	5,201	919	919	10,460	10,460	17,710	17,710	171 J	177 J	1,937	1,937	7,280	7,280	2,782	2,782	4,606 J	4,606 J	11,370 J	11,370 J

**Notes:**

MDL = method detection limit

J = The reported value is an estimate.

MRL = method reporting limit

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

**bold** = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

PAH = Polycyclic Aromatic Hydrocarbons

KM = Kaplan-Meier-based with Efron's bias correction

LPAH = Low Molecular Weight PAH

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

- = Not Analyzed

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-3**  
**Reference Area Soil (0-0.5 ft bgs) PAH Analysis Results**  
**(Page 1 of 2)**

Site ID	R-01		R-02		R-03		R-04		R-05		R-06		R-07*	
Sample ID	090128-R-R1-0-0.5So		090128-R-R2-0-0.5So		090128-R-R3-0-0.5So		090128-R-R4-0-0.5So		090128-R-R5-0-0.5So		090128-R-R6-0-0.5So		090128-R-R7-0-0.5So	
Sample Date	1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009	
Sample Depth (feet bgs)	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Censoring Level for Undetected Results	MDL	MRL												
<b>LPAHs</b>														
Acenaphthene	1.90 J	1.90 J	1.20 J	1.20 J	3.40 J	3.40 J	1.00 U	10.0 U	1.60 J	1.60 J	1.20 J	1.20 J	1.75 J	1.75 J
Acenaphthylene	1.40 U	9.90 U	1.40 U	10.0 U	1.60 J	1.60 J	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 U	10.0 U
Anthracene	2.70 J	2.70 J	2.00 J	2.00 J	4.90 J	4.90 J	1.50 J	1.50 J	1.90 J	1.90 J	2.00 J	2.00 J	3.30 J	3.30 J
Fluorene	1.70 U	9.90 U	1.70 U	10.0 U	3.20 J	3.20 J	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U
Naphthalene	1.30 U	9.90 U	1.60 J	1.60 J	2.20 J	2.20 J	1.30 U	10.0 U	1.30 U	10.0 U	1.30 J	1.30 J	1.80 J	1.80 J
Phenanthrene	16.0	16.0	16.0	16.0	34.0	34.0	9.10 J	9.10 J	13.0	13.0	9.60 J	9.60 J	16.0	16.0
Total LPAHs (full MDL/MRL)	25.0 J	50.3 J	23.9 J	40.8 J	49.3 J	49.3 J	16.0 J	50.6 J	20.9 J	46.5 J	17.2 J	33.9 J	26.0 J	42.9 J
Total LPAHs (KM)	24.5 J	27.5 J	23.3 J	24.0 J	49.3 J	49.3 J	14.7 J	31.8 J	20.5 J	21.8 J	16.6 J	21.2 J	25.7 J	27.4 J
Total LPAHs (KM, capped)	24.5 J	27.5 J	23.3 J	24.0 J	49.3 J	49.3 J	14.7 J	31.8 J	20.5 J	21.8 J	16.6 J	21.2 J	25.7 J	27.4 J
<b>HPAHs</b>														
Benzo(a)anthracene	16.0	16.0	17.0	17.0	34.0	34.0	9.90 J	9.90 J	17.0	17.0	11.0	11.0	20.5	20.5
Benzo(a)pyrene	20.0	20.0	22.0	22.0	45.0	45.0	11.0	11.0	20.0	20.0	16.0	16.0	26.5	26.5
Benzo(b)fluoranthene	27.0	27.0	29.0	29.0	55.0	55.0	16.0	16.0	27.0	27.0	19.0	19.0	33.0	33.0
Benzo(g,h,i)perylene	14.0	14.0	16.0	16.0	32.0	32.0	11.0	11.0	16.0	16.0	13.0	13.0	20.5	20.5
Benzo(k)fluoranthene	8.30 J	8.30 J	9.70 J	9.70 J	19.0	19.0	6.70 J	6.70 J	9.50 J	9.50 J	7.70 J	7.70 J	10.8 J	10.8 J
Chrysene	20.0	20.0	23.0	23.0	45.0	45.0	13.0	13.0	22.0	22.0	17.0	17.0	25.5	25.5
Dibenz(a,h)anthracene	4.30 J	4.30 J	2.20 U	10.0 U	6.90 J	6.90 J	2.20 U	10.0 U	3.60 J	3.60 J	3.70 J	3.70 J	4.90 J	4.90 J
Fluoranthene	31.0	31.0	33.0	33.0	66.0	66.0	19.0	19.0	31.0	31.0	22.0	22.0	39.5	39.5
Indeno(1,2,3-cd)pyrene	17.0	17.0	16.0	16.0	34.0	34.0	12.0	12.0	16.0	16.0	12.0	12.0	22.0	22.0
Pyrene	29.0	29.0	31.0	31.0	64.0	64.0	18.0	18.0	30.0	30.0	23.0	23.0	39.0	39.0
Total HPAHs (full MDL/MRL)	187 J	187 J	199 J	207 J	401 J	401 J	119 J	127 J	192 J	192 J	144 J	144 J	242 J	242 J
Total HPAHs (KM)	187 J	187 J	199 J	206 J	401 J	401 J	119 J	125 J	192 J	192 J	144 J	144 J	242 J	242 J
Total HPAHs (KM-capped)	187 J	187 J	199 J	206 J	401 J	401 J	119 J	125 J	192 J	192 J	144 J	144 J	242 J	242 J

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

NC = Not calculated

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-3**  
**Reference Area Soil (0-0.5 ft bgs) PAH Analysis Results**  
**(Page 2 of 2)**

Site ID	R-08		R-09		R-10		R-11		R-12		R-13		R-14	
Sample ID	090128-R-R8-0-0.5So		090128-R-R9-0-0.5So		090128-R-R10-0-0.5So		090128-R-R11-0-0.5So		090128-R-R12-0-0.5So		090128-R-R13-0-0.5So		090128-R-R14-0-0.5So	
Sample Date	1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009	
Sample Depth (feet bgs)	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>														
Acenaphthene	1.80 J	1.80 J	1.00 U	10.0 U	1.50 J	1.50 J	1.00 U	9.90 U	1.40 J	1.40 J	1.00 U	10.0 U	1.00 U	10.0 U
Acenaphthylene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	10.0 U
Anthracene	2.20 J	2.20 J	3.50 J	3.50 J	2.10 J	2.10 J	1.40 U	9.90 U	1.70 J	1.70 J	1.80 J	1.80 J	1.40 U	10.0 U
Fluorene	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Naphthalene	1.60 J	1.60 J	1.30 U	10.0 U	1.70 J	1.70 J	1.30 U	9.90 U	1.30 U	10.0 U	1.30 U	10.0 U	1.30 U	10.0 U
Phenanthrene	18.0	18.0	13.0	13.0	11.0	11.0	5.50 J	5.50 J	9.60 J	9.60 J	8.30 J	8.30 J	5.80 J	5.80 J
Total LPAHs (full MDL/MRL)	26.7 J	43.6 J	21.9 J	56.5 J	19.4 J	36.3 J	12.3 J	55.0 J	17.1 J	42.7 J	15.5 J	50.1 J	12.6 J	55.8 J
Total LPAHs (KM)	26.5 J	27.3 J	20.5 J	30.5 J	19.2 J	19.8 J	-	-	16.6 J	25.4 J	14.1 J	30.3 J	-	-
Total LPAHs (KM, capped)	26.5 J	27.3 J	20.5 J	30.5 J	19.2 J	19.8 J	12.3 J	55.0 J	16.6 J	25.4 J	14.1 J	30.3 J	12.6 J	55.8 J
<b>HPAHs</b>														
Benzo(a)anthracene	16.0	16.0	13.0	13.0	10.0	10.0	7.40 J	7.40 J	12.0	12.0	8.00 J	8.00 J	4.60 J	4.60 J
Benzo(a)pyrene	22.0	22.0	15.0	15.0	15.0	15.0	8.30 J	8.30 J	16.0	16.0	10.0	10.0	7.70 J	7.70 J
Benzo(b)fluoranthene	27.0	27.0	22.0	22.0	18.0	18.0	13.0	13.0	20.0	20.0	12.0	12.0	9.10 J	9.10 J
Benzo(g,h,i)perylene	15.0	15.0	11.0	11.0	12.0	12.0	8.20 J	8.20 J	9.70 J	9.70 J	7.30 J	7.30 J	5.80 J	5.80 J
Benzo(k)fluoranthene	8.70 J	8.70 J	7.10 J	7.10 J	6.90 J	6.90 J	3.40 J	3.40 J	7.20 J	7.20 J	4.30 J	4.30 J	2.70 J	2.70 J
Chrysene	21.0	21.0	15.0	15.0	15.0	15.0	8.90 J	8.90 J	15.0	15.0	10.0	10.0	6.40 J	6.40 J
Dibenz(a,h)anthracene	4.40 J	4.40 J	2.20 U	10.0 U	2.20 U	10.0 U	2.70 J	2.70 J	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U
Fluoranthene	31.0	31.0	26.0	26.0	21.0	21.0	13.0	13.0	21.0	21.0	15.0	15.0	10.0	10.0
Indeno(1,2,3-cd)pyrene	17.0	17.0	12.0	12.0	5.20 J	5.20 J	8.20 J	8.20 J	12.0	12.0	7.60 J	7.60 J	6.00 J	6.00 J
Pyrene	31.0	31.0	26.0	26.0	21.0	21.0	15.0	15.0	24.0	24.0	14.0	14.0	10.0	10.0
Total HPAHs (full MDL/MRL)	193 J	193 J	149 J	157 J	126 J	134 J	88.1 J	88.1 J	139 J	147 J	90.4 J	98.2 J	64.5 J	72.3 J
Total HPAHs (KM)	193 J	193 J	149 J	154 J	126 J	130 J	88.1 J	88.1 J	139 J	145 J	90.4 J	95.0 J	64.5 J	68.3 J
Total HPAHs (KM-capped)	193 J	193 J	149 J	154 J	126 J	130 J	88.1 J	88.1 J	139 J	145 J	90.4 J	95.0 J	64.5 J	68.3 J

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

NC = Not calculated

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-4**  
**Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 1 of 5)**

Site ID	BIL01SSI		BIL02SSI		BIL03SSI		BIL04SSI		BIL05SSI		BIL06SSI*		BIL09SSI		BIL10SSI		BIL11SSI	
Sample ID	990920BIL01SS		990920BIL02SS		990920BIL03SS		990920BIL04SS		990920BIL05SS		990920BIL06SS		990920BIL09SS		990920BIL10SS		990921BIL11SS	
Sample Date	9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/21/1999	
Sample Depth (feet bgs)	0-0.33		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1221	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1232	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1242	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1248	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1254	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1260	<b>58.0 J</b>	<b>58.0 J</b>	<b>420 J</b>	<b>420 J</b>	<b>48.0 J</b>	<b>48.0 J</b>	<b>660 J</b>	<b>660 J</b>	<b>160 J</b>	<b>160 J</b>	<b>81.5 J</b>	<b>81.5 J</b>	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Total PCBs as Aroclors <sup>1</sup>	128 J	128 J	488 J	488 J	118 J	118 J	728 J	728 J	232 J	232 J	152 J	152 J	105 UJ	105 UJ	105 UJ	105 UJ	111 UJ	111 UJ

**Notes:**

<sup>1</sup> Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-4**  
**Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 2 of 5)**

Site ID	BIL12SSI		BIL13SSI		BIL01TPG		BIL02TPG		BIL03TPG		BIL04TPG		BIL05		BIL06		BIL07	
Sample ID	990921BIL12SS		000413BIL13SS		011015BIL01TPG		011015BIL02TPG		011015BIL03TPG		011015BIL04TPG		011016BIL05SS		011016BIL06SS		011016BIL07SS	
Sample Date	9/21/1999		4/13/2000		10/15/2001		10/15/2001		10/15/2001		10/15/2001		10/16/2001		10/16/2001		10/16/2001	
Sample Depth (feet bgs)	0-0.5		0-0.5		0-10		0-10		0-10		0-10		8.0		8.0		5.0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	1.49 U	13.6 U	1.30 U	11.8 U	1.35 U	12.3 U	1.25 U	11.3 U	1.23 U	11.2 U	1.18 U	10.8 U	1.17 U	10.6 U
Aroclor 1221	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	6.39 U	13.6 U	5.55 U	11.8 U	5.78 U	12.3 U	5.34 U	11.3 U	5.28 U	11.2 U	5.07 U	10.8 U	5.02 U	10.6 U
Aroclor 1232	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	5.10 U	13.6 U	4.43 U	11.8 U	4.61 U	12.3 U	4.26 U	11.3 U	4.21 U	11.2 U	4.04 U	10.8 U	4.00 U	10.6 U
Aroclor 1242	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	2.73 U	13.6 U	2.37 U	11.8 U	2.47 U	12.3 U	2.28 U	11.3 U	2.25 U	11.2 U	2.16 U	10.8 U	2.14 U	10.6 U
Aroclor 1248	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	<b>968</b>	<b>968</b>	5.89 U	11.8 U	<b>61.5</b>	<b>61.5</b>	5.66 U	11.3 U	5.60 U	11.2 U	5.38 U	10.8 U	5.32 U	10.6 U
Aroclor 1254	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	2.12 U	13.6 U	1.84 U	11.8 U	1.91 U	12.3 U	1.77 U	11.3 U	1.75 U	11.2 U	<b>26.7</b>	<b>26.7</b>	1.66 U	10.6 U
Aroclor 1260	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	<b>26.3</b>	<b>26.3</b>	<b>22.2</b>	<b>22.2</b>	<b>87.6</b>	<b>87.6</b>	<b>12.5</b>	<b>12.5</b>	<b>10.2 J</b>	<b>10.2 J</b>	<b>12.8</b>	<b>12.8</b>	<b>36.7</b>	<b>36.7</b>
Total PCBs as Aroclors <sup>1</sup>	105 UJ	105 UJ	150 UJ	150 UJ	<b>996 J</b>	<b>1007.9 J</b>	<b>29.9 J</b>	<b>45.8 J</b>	<b>151.01 J</b>	<b>161 J</b>	<b>19.9 J</b>	<b>35.1 J</b>	<b>17.6 J</b>	<b>32.6 J</b>	<b>44.9 J</b>	<b>50.3 J</b>	<b>43.7 J</b>	<b>57.9 J</b>

**Notes:**

<sup>1</sup> Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-4**  
**Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 3 of 5)**

Site ID	BIL08		BIL09		BIL10		BIL11*		BIL13		BIL14		BIL15		BIL16		BIL17	
Sample ID	011016BIL08SS		011016BIL09SS		011016BIL10SS		011016BIL11SS		011016BIL13SS		011016BIL14SS		011016BIL15SS		011016BIL16SS		011016BIL17SS	
Sample Date	10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001	
Sample Depth (feet bgs)	5.0		6.0		5.0		8.0		4.0		6.0		8.0		4.0		1.0	
Censoring Level for Undetected Results	MDL	MRL																
Aroclor 1016	1.18 U	10.7 U	1.27 U	11.5 U	1.14 U	10.4 U	1.32 U	12.0 U	1.23 U	11.2 U	1.20 U	10.9 U	1.21 U	11.0 U	1.16 U	10.5 U	1.36 U	12.4 U
Aroclor 1221	5.06 U	10.7 U	5.43 U	11.5 U	4.88 U	10.4 U	5.66 U	12.0 U	5.27 U	11.2 U	5.13 U	10.9 U	5.16 U	11.0 U	4.97 U	10.5 U	5.83 U	12.4 U
Aroclor 1232	4.04 U	10.7 U	4.33 U	11.5 U	3.90 U	10.4 U	4.51 U	12.0 U	4.21 U	11.2 U	4.10 U	10.9 U	4.12 U	11.0 U	3.97 U	10.5 U	4.65 U	12.4 U
Aroclor 1242	2.16 U	10.7 U	2.32 U	11.5 U	2.08 U	10.4 U	2.41 U	12.0 U	2.25 U	11.2 U	2.19 U	10.9 U	2.20 U	11.0 U	2.12 U	10.5 U	2.49 U	12.4 U
Aroclor 1248	5.37 U	10.7 U	5.76 U	11.5 U	5.18 U	10.4 U	6.00 U	12.0 U	5.60 U	11.2 U	5.45 U	10.9 U	5.48 U	11.0 U	5.27 U	10.5 U	6.19 U	12.4 U
Aroclor 1254	1.68 U	10.7 U	1.80 U	11.5 U	1.62 U	10.4 U	55.3	55.3	499	499	1.70 U	10.9 U	1.71 U	11.0 U	1.65 U	10.5 U	78.6	78.6
Aroclor 1260	1.68 U	10.7 U	55.3	55.3	1.62 U	10.4 U	39.8	39.8	158	158	15.0	15.0	52.4	52.4	445	445	68.0	68.0
Total PCBs as Aroclors <sup>1</sup>	8.73 U	32.1 U	62.9 J	78.3 J	8.42 U	31.2 U	101 J	107 J	663 J	668 J	22.2 J	36.8 J	59.6 J	74.4 J	452 J	466 J	153 J	159 J

**Notes:**

<sup>1</sup> Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

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**bold** = analyte detected above MDL.

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\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-4**  
**Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 4 of 5)**

Site ID	BIL18		BIL19		BIL20		BIL21		BIL22		BIL28TPM		BIL28TPM		BIL01USE		BIL02USE	
Sample ID	011016BIL18SS		011016BIL19SS		011016BIL20SS		011016BIL21SS		011016BIL22SS		011017BIL28TPM		011017BIL28TPM		070410BIL01SS		070410BIL02SS	
Sample Date	10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/17/2001		10/17/2001		4/10/2007		4/10/2007	
Sample Depth (feet bgs)	2.0		5.0		8.0		5.0		3.0		0-10		0-10		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.16 U	10.5 U	1.16 U	10.6 U	1.31 U	11.9 U	1.10 U	10.0 U	1.14 U	10.4 U	1.39 U	12.7 U	1.39 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1221	4.96 U	10.5 U	4.98 U	10.6 U	5.62 U	11.9 U	4.72 U	10.0 U	4.89 U	10.4 U	5.96 U	12.7 U	5.96 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1232	3.96 U	10.5 U	3.97 U	10.6 U	4.49 U	11.9 U	3.77 U	10.0 U	3.90 U	10.4 U	4.76 U	12.7 U	4.76 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1242	2.12 U	10.5 U	2.12 U	10.6 U	2.40 U	11.9 U	2.01 U	10.0 U	2.09 U	10.4 U	2.54 U	12.7 U	2.54 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1248	5.27 U	10.5 U	5.28 U	10.6 U	5.97 U	11.9 U	5.01 U	10.0 U	5.19 U	10.4 U	6.33 U	12.7 U	6.33 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1254	<b>48.4</b>	<b>48.4</b>	<b>54.9</b>	<b>54.9</b>	1.86 U	11.9 U	<b>37.2</b>	<b>37.2</b>	<b>104</b>	<b>104</b>	1.98 U	12.7 U	1.98 U	12.7 U	<b>26.0</b>	<b>26.0</b>	<b>27.0</b>	<b>27.0</b>
Aroclor 1260	39.0	39.0	74.6	74.6	2.05 J	2.05 J	41.8	41.8	91.2	91.2	46.5	46.5	46.5	46.5	50.0	50.0	24.0	24.0
Total PCBs as Aroclors <sup>1</sup>	<b>92.7 J</b>	<b>97.9 J</b>	<b>135 J</b>	<b>140 J</b>	<b>9.88 J</b>	<b>25.9 J</b>	<b>84.0 J</b>	<b>89.0 J</b>	<b>200 J</b>	<b>206 J</b>	<b>54.8 J</b>	<b>71.9 J</b>	<b>54.8 J</b>	<b>71.9 J</b>	<b>79.9 J</b>	<b>79.9 J</b>	<b>54.9 J</b>	<b>54.9 J</b>

**Notes:**

<sup>1</sup> Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-4**  
**Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results**  
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Site ID	BIL03USE		BIL04USE		BIL05USE		BIL06USE		BIL07USE		BIL08USE		BIL09USE	
Sample ID	070410BIL03SS		070410BIL04SS		070410BIL05SS		070410BIL06SS		070410BIL07SS		070410BIL08SS		070410BIL09SS	
Sample Date	4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007	
Sample Depth (feet bgs)	0.5		0.5		0.5		0.5		0.5		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1221	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1232	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1242	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1248	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1254	<b>19.0</b>	<b>19.0</b>	<b>8.30</b>	<b>8.30</b>	4.00 U	4.00 U	19.0 U	19.0 U	<b>49.0</b>	<b>49.0</b>	<b>24.0</b>	<b>24.0</b>	<b>5.50</b>	<b>5.50</b>
Aroclor 1260	<b>31.0 J</b>	<b>31.0 J</b>	<b>33.0</b>	<b>33.0</b>	<b>12.0</b>	<b>12.0</b>	<b>92.0</b>	<b>92.0</b>	<b>74.0</b>	<b>74.0</b>	<b>42.0</b>	<b>42.0</b>	<b>19.0</b>	<b>19.0</b>
Total PCBs as Aroclors <sup>1</sup>	<b>53.9 J</b>	<b>53.9 J</b>	<b>45.2 J</b>	<b>45.2 J</b>	<b>20.0 J</b>	<b>20.0 J</b>	<b>115 J</b>	<b>115 J</b>	<b>127 J</b>	<b>127 J</b>	<b>70.0 J</b>	<b>70.0 J</b>	<b>28.3 J</b>	<b>28.3 J</b>

**Notes:**

<sup>1</sup> Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
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Site ID	DSA01		DSA02		DSA03		DSA04		DSA05		DSA06		DSA07		DSA08		DSA09		DSA10	
Sample ID	011204DSA01SS		011204DSA02SS		011204DSA03SS		011204DSA04SS		011204DSA05SS		011204DSA06SS		011204DSA07SS		011204DSA08SS		011204DSA09SS		011204DSA10SS	
Sample Date	12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001	
Sample Depth (feet bgs)	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.20 U	10.9 U	1.09 U	9.88 U	1.22 U	11.1 U	1.24 U	11.2 U	1.08 U	9.82 U	1.22 U	11.1 U	1.14 U	10.3 U	1.09 U	9.93 U	1.22 U	11.1 U	1.19 U	10.8 U
Aroclor 1221	5.13 U	10.9 U	4.66 U	9.88 U	5.23 U	11.1 U	5.29 U	11.2 U	4.63 U	9.82 U	5.22 U	11.1 U	4.87 U	10.3 U	4.68 U	9.93 U	5.21 U	11.1 U	5.10 U	10.8 U
Aroclor 1232	4.09 U	10.9 U	3.72 U	9.88 U	4.18 U	11.1 U	4.22 U	11.2 U	3.69 U	9.82 U	4.17 U	11.1 U	3.89 U	10.3 U	3.73 U	9.93 U	4.16 U	11.1 U	4.07 U	10.8 U
Aroclor 1242	2.19 U	10.9 U	1.99 U	9.88 U	2.23 U	11.1 U	2.26 U	11.2 U	1.97 U	9.82 U	2.23 U	11.1 U	2.08 U	10.3 U	2.00 U	9.93 U	2.22 U	11.1 U	2.17 U	10.8 U
Aroclor 1248	5.44 U	10.9 U	4.94 U	9.88 U	5.55 U	11.1 U	5.62 U	11.2 U	4.91 U	9.82 U	5.54 U	11.1 U	5.17 U	10.3 U	4.96 U	9.93 U	5.53 U	11.1 U	5.41 U	10.8 U
Aroclor 1254	1.70 U	10.9 U	1.54 U	9.88 U	1.73 U	11.1 U	1.75 U	11.2 U	1.53 U	9.82 U	1.73 U	11.1 U	1.61 U	10.3 U	1.55 U	9.93 U	1.73 U	11.1 U	1.69 U	10.8 U
Aroclor 1260	<b>2.00 J</b>	<b>2.00 J</b>	1.54 U	9.88 U	<b>2.23 J</b>	<b>2.23 J</b>	<b>2.08 J</b>	<b>2.08 J</b>	<b>7.79 J</b>	<b>7.79 J</b>	<b>16.8</b>	<b>16.8</b>	1.61 U	10.3 U	1.55 U	9.93 U	<b>2.12 J</b>	<b>2.12 J</b>	<b>2.48 J</b>	<b>2.48 J</b>
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors <sup>1</sup>	<b>3.70 J</b>	<b>12.9 J</b>	3.08 U	19.8 U	<b>3.96 J</b>	<b>13.3 J</b>	<b>3.83 J</b>	<b>13.3 J</b>	<b>9.32 J</b>	<b>17.6 J</b>	<b>18.5 J</b>	<b>27.9 J</b>	3.22 U	20.6 U	3.10 U	19.9 U	<b>3.85 J</b>	<b>13.2 J</b>	<b>4.17 J</b>	<b>13.3 J</b>

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 2 of 8)**

Site ID	DSA11*		DSA12*		SBB01*		SBB03		SBB04		SBB05		SBB06		SBB07*		SBB09		SBB10	
Sample ID	011204DSA11SS	011204DSA12SS	011205SBB01SBG	011205SBB03SBG	011205SBB04SBG	011205SBB05SBG	011205SBB06SBG	011205SBB07SBG	011205SBB09SBG	011205SBB10SBG										
Sample Date	12/4/2001	12/4/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001										
Sample Depth (feet bgs)	0.0		0.0		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Media	Soil		Soil		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.21 U	11.0 U	1.25 U	11.4 U	1.28 U	11.7 U	1.23 U	11.2 U	1.19 U	10.8 U	1.29 U	11.7 U	1.25 U	11.4 U	1.43 U	13.0 U	1.22 U	11.1 U	1.18 U	10.7 U
Aroclor 1221	5.19 U	11.0 U	5.51 U	11.4 U	5.50 U	11.7 U	5.26 U	11.2 U	5.08 U	10.8 U	5.53 U	11.7 U	5.37 U	11.4 U	6.14 U	13.0 U	5.23 U	11.1 U	5.04 U	10.7 U
Aroclor 1232	4.15 U	11.0 U	4.28 U	11.4 U	4.39 U	11.7 U	4.20 U	11.2 U	4.06 U	10.8 U	4.42 U	11.7 U	4.29 U	11.4 U	4.90 U	13.0 U	4.17 U	11.1 U	4.02 U	10.7 U
Aroclor 1242	2.22 U	11.0 U	2.29 U	11.4 U	2.35 U	11.7 U	2.25 U	11.2 U	2.17 U	10.8 U	2.36 U	11.7 U	2.29 U	11.4 U	2.62 U	13.0 U	2.23 U	11.1 U	2.15 U	10.7 U
Aroclor 1248	5.51 U	11.0 U	5.70 U	11.4 U	5.84 U	11.7 U	5.59 U	11.2 U	5.40 U	10.8 U	5.87 U	11.7 U	5.70 U	11.4 U	6.52 U	13.0 U	5.55 U	11.1 U	5.35 U	10.7 U
Aroclor 1254	1.72 U	11.0 U	1.78 U	11.4 U	1.82 U	11.7 U	1.74 U	11.2 U	1.68 U	10.8 U	1.83 U	11.7 U	1.78 U	11.4 U	2.03 U	13.0 U	1.73 U	11.1 U	1.67 U	10.7 U
Aroclor 1260	<b>21.0</b>	<b>21.0</b>	<b>8.30 J</b>	<b>8.30 J</b>	<b>6.44 J</b>	<b>6.44 J</b>	<b>30.6</b>	<b>30.6</b>	<b>17.7</b>	<b>17.7</b>	<b>23.7</b>	<b>23.7</b>	<b>15.5</b>	<b>15.5</b>	<b>5.78 J</b>	<b>5.78 J</b>	<b>81.8</b>	<b>81.8</b>	<b>26.0</b>	<b>26.0</b>
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors <sup>1</sup>	22.7 J	32.0 J	10.1 J	19.7 J	8.26 J	18.1 J	32.3 J	41.8 J	19.4 J	28.5 J	25.5 J	35.4 J	17.3 J	26.9 J	7.81 J	18.8 J	83.5 J	92.9 J	27.7 J	36.7 J

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
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Site ID	SBB11		SBB12		SBB13		SBB14		SBB15		SBB15		SBB16		SBB16		SBB17		SBB17	
Sample ID	011205SBB11SBG	011205SBB12SBG	011205SBB13SBG	011205SBB14SBG	011205SBB15SBG	011205SBB21SS	011205SBB16SBG	011206SBB22ss	011205SBB17SBG	011205SBB19SS										
Sample Date	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/5/2001	12/6/2001	12/5/2001	12/5/2001										
Sample Depth (feet bgs)	0-0.5		0-0.5		2.0		2.0		0-0.5		1.0		0-0.5		1.5		0-0.5		3.0	
Media	Sandblast Grit		Sandblast Grit		Soil		Sandblast Grit		Sandblast Grit		Soil		Sandblast Grit		Soil		Sandblast Grit		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.17 U	10.6 U	1.24 U	11.3 U	1.41 U	12.8 U	1.24 U	11.3 U	1.09 U	9.90 U	1.22 U	11.1 U	1.18 U	10.8 U	1.33 U	12.1 U	1.23 U	11.2 U	1.38 U	12.5 U
Aroclor 1221	5.02 U	10.6 U	5.32 U	11.3 U	6.04 U	12.8 U	5.32 U	11.3 U	4.66 U	9.90 U	5.21 U	11.1 U	5.07 U	10.8 U	5.70 U	12.1 U	5.28 U	11.2 U	5.89 U	12.5 U
Aroclor 1232	4.00 U	10.6 U	4.24 U	11.3 U	4.82 U	12.8 U	4.24 U	11.3 U	3.72 U	9.90 U	4.16 U	11.1 U	4.05 U	10.8 U	4.55 U	12.1 U	4.21 U	11.2 U	4.70 U	12.5 U
Aroclor 1242	2.14 U	10.6 U	2.27 U	11.3 U	2.58 U	12.8 U	2.27 U	11.3 U	1.99 U	9.90 U	2.23 U	11.1 U	2.16 U	10.8 U	2.43 U	12.1 U	2.25 U	11.2 U	2.51 U	12.5 U
Aroclor 1248	5.32 U	10.6 U	5.64 U	11.3 U	6.41 U	12.8 U	5.64 U	11.3 U	4.95 U	9.90 U	5.54 U	11.1 U	5.39 U	10.8 U	6.05 U	12.1 U	5.60 U	11.2 U	6.26 U	12.5 U
Aroclor 1254	1.66 U	10.6 U	1.76 U	11.3 U	2.00 U	12.8 U	1.76 U	11.3 U	1.54 U	9.90 U	1.73 U	11.1 U	1.68 U	10.8 U	1.89 U	12.1 U	1.75 U	11.2 U	1.95 U	12.5 U
Aroclor 1260	<b>52.1</b>	<b>52.1</b>	<b>202</b>	<b>202</b>	2.00 U	12.8 U	<b>4.95 J</b>	<b>4.95 J</b>	<b>64.0</b>	<b>64.0</b>	<b>20.8</b>	<b>20.8</b>	<b>193</b>	<b>193</b>	<b>13.4</b>	<b>13.4</b>	<b>18.7</b>	<b>18.7</b>	<b>4.17 J</b>	<b>4.17 J</b>
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors <sup>1</sup>	53.8 J	62.7 J	204 J	213 J	4.00 U	25.6 U	6.71 J	16.3 J	65.5 J	73.9 J	22.5 J	31.9 J	195 J	204 J	15.3 J	25.5 J	20.5 J	29.9 J	6.12 J	16.7 J

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
 (Page 4 of 8)

Site ID	SBB18		SBB18		SBB23		SBB24		TRA01		TRA01		TRA02		TRA03		TRA03		TRA04	
Sample ID	011205SBB18SBG		011205SBB20SS		011206SBB23SBG		011206SBB24SBG		011204TRA01SS		011204TRA14SS		011204TRA02SS		011204TRA03SS		011204TRA13SS		011204TRA04SS	
Sample Date	12/5/2001		12/5/2001		12/6/2001		12/6/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001	
Sample Depth (feet bgs)	0-0.5		2.5		0-0.5		0-0.5		0-1		3.0		0-1		0-1		1.8		0-1	
Media	Sandblast Grit		Soil		Sandblast Grit		Sandblast Grit		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.20 U	10.9 U	1.45 U	13.2 U	1.32 U	12.0 U	1.28 U	11.6 U	1.20 U	10.9 U	1.38 U	12.6 U	1.16 U	10.6 U	1.22 U	11.1 U	1.28 U	11.7 U	1.25 U	11.4 U
Aroclor 1221	5.15 U	10.9 U	6.21 U	13.2 U	5.67 U	12.0 U	5.49 U	11.6 U	5.16 U	10.9 U	5.91 U	12.6 U	4.98 U	10.6 U	5.24 U	11.1 U	5.49 U	11.7 U	5.37 U	11.4 U
Aroclor 1232	4.11 U	10.9 U	4.95 U	13.2 U	4.53 U	12.0 U	4.38 U	11.6 U	4.12 U	10.9 U	4.72 U	12.6 U	3.98 U	10.6 U	4.18 U	11.1 U	4.39 U	11.7 U	4.28 U	11.4 U
Aroclor 1242	2.20 U	10.9 U	2.65 U	13.2 U	2.42 U	12.0 U	2.34 U	11.6 U	2.20 U	10.9 U	2.52 U	12.6 U	2.13 U	10.6 U	2.24 U	11.1 U	2.34 U	11.7 U	2.29 U	11.4 U
Aroclor 1248	5.46 U	10.9 U	6.59 U	13.2 U	6.02 U	12.0 U	5.82 U	11.6 U	5.47 U	10.9 U	6.28 U	12.6 U	5.29 U	10.6 U	5.57 U	11.1 U	5.83 U	11.7 U	5.70 U	11.4 U
Aroclor 1254	1.70 U	10.9 U	2.06 U	13.2 U	1.88 U	12.0 U	1.82 U	11.6 U	1.71 U	10.9 U	1.96 U	12.6 U	1.65 U	10.6 U	1.74 U	11.1 U	1.82 U	11.7 U	1.78 U	11.4 U
Aroclor 1260	<b>17.4</b>	<b>17.4</b>	2.06 U	13.2 U	<b>7.09 J</b>	<b>7.09 J</b>	<b>6.95 J</b>	<b>6.95 J</b>	<b>23.5</b>	<b>23.5</b>	1.96 U	12.6 U	<b>42.2</b>	<b>42.2</b>	<b>43.2</b>	<b>43.2</b>	<b>2.64 J</b>	<b>2.64 J</b>	<b>98.8</b>	<b>98.8</b>
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors <sup>1</sup>	<b>19.1 J</b>	<b>28.3 J</b>	4.12 U	26.4 U	<b>8.97 J</b>	<b>19.1 J</b>	<b>8.77 J</b>	<b>18.6 J</b>	<b>25.2 J</b>	<b>34.4 J</b>	3.92 U	25.2 U	<b>43.9 J</b>	<b>52.8 J</b>	<b>44.9 J</b>	<b>54.3 J</b>	<b>4.46 J</b>	<b>14.3 J</b>	<b>101 J</b>	<b>110 J</b>

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 5 of 8)**

Site ID	TRA05		TRA05		TRA06*		TRA07		TRA07		TRA09*		TRA11		TRA12		DP5		DP6	
Sample ID	011204TRA05SS	011206TRA16ss	011204TRA06SS	011204TRA07SS	011206TRA15ss	011204TRA09SS	011204TRA11SS	011204TRA12SS	041116SGA02SS	041117SGA04SS										
Sample Date	12/4/2001	12/6/2001	12/4/2001	12/4/2001	12/6/2001	12/4/2001	12/4/2001	12/4/2001	11/16/2004	11/17/2004										
Sample Depth (feet bgs)	0-1	2.5	0-1	0-1	2.0	0-1	0-1	0-1	21-23	15-17										
Media	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil												
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL										
Aroclor 1016	1.25 U	11.3 U	1.28 U	11.6 U	1.28 U	11.7 U	1.31 U	11.9 U	1.24 U	11.3 U	1.32 U	12.0 U	1.27 U	11.5 U	1.27 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1221	5.34 U	11.3 U	5.47 U	11.6 U	5.49 U	11.7 U	5.61 U	11.9 U	5.33 U	11.3 U	5.67 U	12.0 U	5.42 U	11.5 U	5.44 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1232	4.26 U	11.3 U	4.36 U	11.6 U	4.39 U	11.7 U	4.48 U	11.9 U	4.25 U	11.3 U	4.52 U	12.0 U	4.33 U	11.5 U	4.35 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1242	2.28 U	11.3 U	2.33 U	11.6 U	2.22 U	11.1 U	2.39 U	11.9 U	2.27 U	11.3 U	2.42 U	12.0 U	2.31 U	11.5 U	2.32 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1248	5.67 U	11.3 U	5.80 U	11.6 U	5.83 U	11.7 U	5.95 U	11.9 U	5.66 U	11.3 U	6.02 U	12.0 U	5.75 U	11.5 U	5.78 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1254	1.77 U	11.3 U	1.81 U	11.6 U	1.82 U	11.7 U	1.86 U	11.9 U	1.76 U	11.3 U	1.88 U	12.0 U	1.80 U	11.5 U	1.80 U	11.6 U	1.43 U	8.84 U	1.57 U	9.67 U
Aroclor 1260	<b>121</b>	<b>121</b>	1.81 U	11.6 U	<b>65.8</b>	<b>65.8</b>	<b>21.7</b>	<b>21.7</b>	<b>4.42 J</b>	<b>4.42 J</b>	<b>26.8</b>	<b>26.8</b>	<b>282</b>	<b>282</b>	<b>96.2</b>	<b>96.2</b>	1.43 U	8.84 U	1.57 U	9.67 U
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total PCBs as Aroclors <sup>1</sup>	<b>123 J</b>	<b>132 J</b>	3.62 U	23.2 U	<b>67.6 J</b>	<b>77.5 J</b>	<b>23.6 J</b>	<b>33.6 J</b>	<b>6.18 J</b>	<b>15.7 J</b>	<b>28.7 J</b>	<b>38.8 J</b>	<b>284 J</b>	<b>294 J</b>	<b>98.0 J</b>	<b>108 J</b>	2.86 U	17.7 U	3.14 U	19.3 U

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
**(Page 6 of 8)**

Site ID	DP7*		DP8		DP9		HA1*		HA2		HA3		HA9		HA10		HA11		HA11	
Sample ID	041117SGA05SS	041117SGA08SS	041117SGA09SS	041122SGA14SS	041122SGA16SS	041122SGA17SS	041123SGA28SS	041123SGA29SS	041123SGA30SS	041123SGA31SS										
Sample Date	11/17/2004	11/17/2004	11/17/2004	11/22/2004	11/22/2004	11/22/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	11/23/2004	
Sample Depth (feet bgs)	14-16.5		13-15		14-17		0.5		0.5		0.5		0.5		0.5		1.0		3.0	
Media	Soil																			
Censoring Level for Undetected Results	MDL	MRL																		
Aroclor 1016	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1221	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1232	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1242	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1248	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1254	1.51 U	9.34 U	1.45 U	8.98 U	1.65 U	10.2 U	1.87 U	11.6 U	1.65 U	10.2 U	1.77 U	10.9 U	1.73 U	10.7 U	1.59 U	9.83 U	1.91 U	11.8 U	1.91 U	11.8 U
Aroclor 1260	1.51 U	9.34 U	1.45 U	8.98 U	1.65 U	10.2 U	<b>8.54 J</b>	<b>8.54 J</b>	<b>4.11 J</b>	<b>4.11 J</b>	<b>26.1</b>	<b>26.1</b>	<b>11.9</b>	<b>11.9</b>	<b>1.59 U</b>	<b>9.83 U</b>	<b>6.40 J</b>	<b>6.40 J</b>	1.91 U	11.8 U
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors <sup>1</sup>	3.02 U	18.7 U	2.90 U	18.0 U	3.30 U	20.4 U	<b>10.4 J</b>	<b>20.1 J</b>	<b>5.76 J</b>	<b>14.3 J</b>	<b>27.9 J</b>	<b>37.0 J</b>	<b>13.6 J</b>	<b>22.6 J</b>	3.18 U	19.7 U	<b>8.31 J</b>	<b>18.2 J</b>	3.82 U	23.6 U

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
 (Page 1 of 8)

Site ID	LD-01		LD-01		LD-02		LD-02		LD-03		LD-03		LD-04		LD-04		LD-05		LD-05	
Sample ID	090320-LD-1So-0-1		090320-LD-1So-1-3		090320-LD-2So-0-1		090320-LD-2So-1-3		090320-LD-3So-0-1		090320-LD-3So-1-3		090320-LD-4So-0-1		090320-LD-4So-1-3		090320-LD-5So-0-1		090320-LD-5So-1-3	
Sample Date	3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009	
Sample Depth (feet bgs)	0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1221	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	11.0 U	98.0 U	2.10 U	20.0 U
Aroclor 1232	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1242	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1248	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1254	<b>700</b>	<b>700</b>	<b>23.0</b>	<b>23.0</b>	<b>280</b>	<b>280</b>	<b>16.0</b>	<b>16.0</b>	<b>160</b>	<b>160</b>	<b>11.0</b>	<b>11.0</b>	<b>2.10</b>	<b>10.0</b> U	<b>2.10</b>	<b>9.90</b> U	<b>1,500</b>	<b>1,500</b>	<b>230</b>	<b>230</b>
Aroclor 1260	<b>690</b>	<b>690</b>	<b>22.0</b>	<b>22.0</b>	<b>130</b>	<b>130</b>	<b>18.0</b>	<b>18.0</b>	<b>160</b>	<b>160</b>	<b>11.0</b>	<b>11.0</b>	<b>2.10</b>	<b>10.0</b> U	<b>2.10</b>	<b>9.90</b> U	<b>480</b>	<b>480</b>	<b>130</b>	<b>130</b>
Aroclor 1262	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1268	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Total PCBs as Aroclors <sup>1</sup>	1390	1390	45.0	45.0	410	410	34.0	34.0	320	320	22.0	22.0	4.20 U	20.0 U	4.20 U	19.8 U	1980	1980	360	360

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-5**  
**Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results**  
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Site ID	LD-06		LD-07		LD-08		LD-09		LD-10		LD-11*		SB-EUA*		SB-EUB	
Sample ID	090319-LD-6-So	090319-LD-7-So	090319-LD-8-So	090319-LD-9-So	090319-LD-10-So	090319-LD-11-So	090318-SB-EUA-So	090318-SB-EUB-So								
Sample Date	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/19/2009	3/18/2009	3/18/2009								
Sample Depth (feet bgs)	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17	0-0.17								
Media	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1221	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	11.0 U	100 U	2.10 U	20.0 U	2.10 U	13.0 U	2.10 U	14.0 U
Aroclor 1232	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1242	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1248	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1254	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	1,700	1,700	475	475	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1260	<b>50.0</b>	<b>50.0</b>	<b>660 J</b>	<b>660 J</b>	2.10 U	10.0 U	<b>7.50 J</b>	<b>7.50 J</b>	440	440	215	215	<b>27.0</b>	<b>27.0</b>	<b>67.0</b>	<b>67.0</b>
Aroclor 1262	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1268	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Total PCBs as Aroclors <sup>1</sup>	<b>52.1 J</b>	<b>59.9 J</b>	<b>662 J</b>	<b>670 J</b>	4.20 U	20.0 U	<b>9.60 J</b>	<b>17.5 J</b>	<b>2140</b>	<b>2140</b>	<b>690</b>	<b>690</b>	<b>29.1 J</b>	<b>33.3 J</b>	<b>69.1 J</b>	<b>73.6 J</b>

**Notes:**

<sup>1</sup> Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandblast Area AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-6**  
**Bulb Slope AOPC Soil (0-1 ft bgs) PCB Aroclor Analysis Results**  
**(Page 1 of 2)**

Site ID	AREA A04		AREA A05		AREA B06		AREA B07		AREA C01		AREA C02*	
Sample ID	021120BSA04SS		021120BSA05SS		021120BSB06SS		021120BSB07SS		021120BSC01SS		021120BSC02SS	
Sample Date	11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002	
Sample Depth (feet bgs)	0.17-0.33		0.17-0.33		0.17-0.33		0.17-0.33		0.08-0.25		0.17-0.33	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1221	40.0 U	40.0 U	39.0 U	39.0 U	38.0 U	38.0 U	39.0 U	39.0 U	39.0 U	39.0 U	38.0 U	38.0 U
Aroclor 1232	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1242	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1248	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1254	20.0 U	54.0 U	19.0 U	19.0 U	19.0 U	33.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1260	<b>78.0</b>	<b>78.0</b>	<b>37.0</b>	<b>37.0</b>	<b>160</b>	<b>160</b>	<b>35.0</b>	<b>35.0</b>	<b>27.0</b>	<b>27.0</b>	19.0 U	19.0 U
Total PCBs as Aroclors <sup>1</sup>	<b>78.0</b>	<b>78.0</b>	<b>37.0</b>	<b>37.0</b>	<b>160</b>	<b>160</b>	<b>35.0</b>	<b>35.0</b>	<b>27.0</b>	<b>27.0</b>	19.0 U	19.0 U

**Notes:**

<sup>1</sup> Only Aroclor 1260 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Bulb Slope AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-6**  
**Bulb Slope AOPC Soil (0-1 ft bgs) PCB Aroclor Analysis Results**  
**(Page 2 of 2)**

Site ID	AREA C08		AREA C09		PILE #3 BANK #1		PILE #3 BANK #2		PILE #3 BANK #3		PILE #3 BANK #4	
Sample ID	021120BSC08SS		021120BSC09SS		020419P3B1SD		020419P3B2SD		020419P3B3SD		020419P3B4SD	
Sample Date	11/20/2002		11/20/2002		4/19/2002		4/19/2002		4/19/2002		4/19/2002	
Sample Depth (feet bgs)	0.17-0.33		0.17-0.33		0		0		0		0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1221	39.0 U	39.0 U	40.0 U	40.0 U	134 U	134 U	134 U	134 U	134.0 U	134.0 U	134 U	134 U
Aroclor 1232	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1242	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1248	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1254	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1260	<b>51.0</b>	<b>51.0</b>	20.0 U	20.0 U	67.0 U	67.0 U	<b>76.1</b>	<b>76.1</b>	67.0 U	67.0 U	<b>251</b>	<b>251</b>
Total PCBs as Aroclors <sup>1</sup>	<b>51.0</b>	<b>51.0</b>	20.0 U	20.0 U	67.0 U	67.0 U	<b>76.1</b>	<b>76.1</b>	67.0 U	67.0 U	<b>251</b>	<b>251</b>

**Notes:**

<sup>1</sup> Only Aroclor 1260 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Bulb Slope AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
 (Page 1 of 12)

IUPAC #	COELUTING CONGENERS1	Forebay 01 06/06/0510SB 6/5/2006	Forebay 02 06/06/0510SB 6/5/2006	Forebay 03 06/06/0520SB 6/5/2006	Forebay 04 06/06/0520SB 6/5/2006	Forebay 05 06/06/0520SB 6/5/2006	Forebay 06 06/06/05203SB 6/5/2006
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.186:UJ	0.650:J	0.747:J	0.234:UJ	0.189:UJ	0.346:J
2		0.0880:EMPC	0.698:J	0.482:J	0.129:J	0.276:J	0.407:J
3		0.144:UJ	0.437:UJ	0.438:UJ	0.125:UJ	0.154:UJ	0.378:UJ
4		1.62:J	4.27:J	2.03:J	1.93:J	1.53:J	3.58:J
5		0.124:UJ	0.285:J	0.193:J	0.138:J	0.0720:J	0.222:J
6		0.756:J	2.01:J	1.95:J	1.07:J	1.01:J	1.98:J
7		0.154:J	0.610:J	0.366:J	0.250:J	0.234:J	0.428:J
8		3.33:J	8.87:J	4.46:J	5.10:J	4.44:J	8.56:J
9		0.217:J	0.664:J	0.361:J	0.297:J	0.283:J	0.600:J
10		0.114:UJ	0.267:J	0.125:UJ	0.112:UJ	0.0980:J	0.186:J
11		9.35:J	92.7:J	11.5:J	8.08:J	25.4:J	41.4:J
12	12 + 13	0.111:C UJ	1.12:C J	1.48:C J	0.317:C J	0.0585:C UJ	0.736:C J
13	12 + 13	C12 J					
14		0.112:UJ	0.149:J	0.123:UJ	0.107:UJ	0.0587:UJ	0.0920:J
15		1.25:J	2.68:J	1.31:J	1.02:J	0.809:J	1.91:J
16		4.05:J	11.1:J	5.60:J	8.25:J	6.42:J	11.8:J
17		6.52:J	24.2:J	10.1:J	16.7:J	10.2:J	20.9:J
18	18 + 30	13.9:C J	40.3:C J	19.4:C J	34.3:C J	21.9:C J	43.6:C J
19		1.42:J	3.18:J	1.65:J	2.24:J	1.74:J	3.35:J
20	20 + 28	66.1:C J	255:C J	132:C J	196:C J	99.9:C J	241:C J
21	21 + 33	13.4:C J	34.9:C J	16.8:C J	40.5:C J	18.7:C J	42.7:C J
22		12.4:J	32.9:J	13.2:J	34.1:J	19.2:J	50.5:J
23		0.0849:UJ	0.342:J	0.153:J	0.140:J	0.0860:J	0.293:J
24		0.271:J	0.667:J	0.315:J	0.496:J	0.405:J	1.00:J
25		2.36:J	21.1:J	4.53:J	6.41:J	3.86:J	10.5:J
26	26 + 29	7.60:C J	43.6:C J	13.2:C J	21.4:C J	10.5:C J	28.3:C J
27		0.875:J	4.66:J	1.48:J	2.01:J	1.46:J	3.80:J
28	20 + 28	C20 J					
29	26 + 29	C26 J					
30	18 + 30	C18 J					
31		32.3:J	150:J	46.4:J	90.7:J	55.6:J	147:J
32		2.13:J	12.1:J	2.71:J	6.56:J	2.87:J	6.36:J
33	21 + 33	C21 J					
34		0.0880:J	1.23:J	0.286:J	0.297:J	0.222:J	0.764:J
35		0.0861:UJ	0.0894:UJ	0.148:EMPC	0.129:UJ	0.0812:UJ	0.0808:UJ
36		0.0781:UJ	0.0811:UJ	0.0839:UJ	0.118:UJ	0.0737:UJ	0.0734:UJ
37		5.02:J	39.8:J	13.4:J	6.44:J	6.15:J	17.1:J
38		0.0790:EMPC	1.65:EMPC	0.176:EMPC	0.149:EMPC	0.112:EMPC	0.253:EMPC
39		0.504:J	8.73:EMPC	0.859:J	0.930:EMPC	0.507:J	1.65:J
40	40 + 41 + 71	28.9:C J	1,180:C J	43.8:C J	64.5:C J	42.2:C J	114:C J
41	40 + 41 + 71	C40 J					
42		21.8:J	544:J	42.4:J	43.9:J	31.6:J	112:J
43		4.32:J	91.7:J	9.09:J	13.2:J	7.36:J	18.1:J
44	44 + 47 + 65	152:C J	6,390:C J	1,290:C J	401:C J	253:C J	641:C J
45	45 + 51	6.02:C J	105:C J	10.8:C J	12.9:C J	10.7:C J	29.8:C J
46		1.22:J	15.9:J	1.58:J	2.55:J	2.27:J	4.43:J
47	44 + 47 + 65	C44 J					
48		19.4:J	352:J	32.2:J	46.2:J	25.9:J	79.0:J
49	49 + 69	121:C J	5,360:C J	1,490:C J	317:C J	179:C J	545:C J
50	50 + 53	5.72:C J	249:C J	8.88:C J	10.1:C J	8.80:C J	26.9:C J
51	45 + 51	C45 J					
52		289:J	18,500:J	3,240:J	723:J	476:J	1,220:J
53	50 + 53	C50 J					
54		0.0690:J	1.81:J	0.140:UJ	0.336:J	0.190:J	0.523:J
55		0.202:UJ	0.840:UJ	0.563:UJ	0.311:UJ	0.225:UJ	0.549:UJ
56		18.9:J	1,030:J	272:J	45.6:J	43.9:J	136:J
57		0.920:J	4.37:J	6.79:J	2.03:J	1.44:J	3.01:J
58		0.430:J	0.834:UJ	0.559:UJ	1.51:J	0.221:UJ	0.541:UJ
59	59 + 62 + 75	12.5:C J	131:C J	28.8:C J	31.3:C J	18.2:C J	48.8:C J
60		66.7:J	1,410:J	1,200:J	226:J	91.2:J	237:J
61	61 + 70 + 74 + 76	464:C J	23,500:C J	19,500:C J	1,410:C J	729:C J	2,260:C J
62	59 + 62 + 75	C59 J					
63		24.3:J	368:J	451:J	59.2:J	27.6:J	69.7:J
64		68.3:J	2,610:J	113:J	167:J	113:J	317:J
65	44 + 47 + 65	C44 J					
66		401:J	10,300:J	10,300:J	1,030:J	483:J	1,160:J
67		2.44:J	27.2:J	23.5:J	8.32:J	3.64:J	11.6:J
68		6.74:J	23.5:J	30.1:J	9.21:J	7.08:J	14.4:J
69	49 + 69	C49 J					
70	61 + 70 + 74 + 76	C61 J					
71	40 + 41 + 71	C40 J					
72		4.75:J	39.8:J	33.0:J	12.0:J	7.05:J	15.9:J
73		0.0495:UJ	0.0499:UJ	0.127:UJ	0.0805:UJ	0.0616:UJ	0.0496:UJ
74	61 + 70 + 74 + 76	C61 J					
75	59 + 62 + 75	C59 J					
76	61 + 70 + 74 + 76	C61 J					
77		24.1:J	165:J	205:J	44.8:J	31.5:J	70.3:J
78		0.776:J	16.2:J	31.4:J	1.94:J	0.226:UJ	0.551:UJ
79		4.67:J	683:J	596:J	12.4:J	9.99:J	54.2:J
80		0.176:UJ	0.734:UJ	0.492:UJ	0.279:UJ	0.202:UJ	0.493:UJ
81		1.43:J	19.5:J	23.8:J	3.84:J	2.05:J	4.22:J
82		49.1:J	10,100:J	680:J	78.1:J	95.2:J	296:J
83	83 + 99	1,550:C J	75,300:C J	63,200:C J	5,230:C J	1,820:C J	5,930:C J
84		65.3:J	14,200:J	196:J	125:J	154:J	43

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay 01 06/06/0510SB 6/5/2006	Forebay 02 06/06/0510SB 6/5/2006	Forebay 03 06/06/0520SB 6/5/2006	Forebay 04 06/06/0520SB 6/5/2006	Forebay 05 06/06/0520SB 6/5/2006	Forebay 06 06/06/0520SB 6/5/2006
127		6.90;J	241;J	265;J	26.8;J	7.03;J	34.4;J
128	128 + 166	603;C J	30,800;C J	21,000;C J	2,300;C J	806;C J	2,500;C J
129	129 + 138 + 160 + 163	4,320;C J	168,000;C J	126,000;C J	14,000;C J	5,220;C J	16,200;C J
130		172;J	9,060;J	7,720;J	302;J	232;J	1,060;J
131		9,50;J	1,520;J	395;J	16.5;J	16.9;J	119;J
132		228;J	38,700;J	3,080;J	421;J	399;J	1,910;J
133		83.5;J	1,460;J	1,450;J	208;J	96.5;J	281;J
134	134 + 143	48.6;C J	5,130;C J	3,170;C J	83.2;C J	75.3;C J	458;C J
135	135 + 151 + 154	492;C J	19,700;C J	4,910;C J	1,220;C J	703;C J	2,380;C J
136		87.0;J	9,020;J	247;J	172;J	118;J	439;J
137		283;J	11,900;J	15,300;J	1,100;J	317;J	1,220;J
138	129 + 138 + 160 + 163	C129 J					
139	139 + 140	68.7;C J	3,090;C J	1,660;C J	271;C J	81.4;C J	284;C J
140	139 + 140	C139 J					
141		250;J	18,800;J	5,770;J	723;J	294;J	1,210;J
142		0.661;UJ	2.91;UJ	2.57;UJ	1.36;UJ	0.699;UJ	0.756;UJ
143	134 + 143	C134 J					
144		52.3;J	3,490;J	1,920;J	96.6;J	67.5;J	361;J
145		0.174;EMPC	37.9;J	0.585;J	0.481;J	0.322;J	1.27;J
146		883;J	16,000;J	19,000;J	1,720;J	966;J	2,950;J
147	147 + 149	725;C J	59,800;C J	31,700;C J	1,220;C J	1,160;C J	6,370;C J
148		3.39;J	61.2;J	8.95;J	8.09;J	5.48;J	17.1;J
149	147 + 149	C147 J					
150		1.44;J	72.4;J	13.1;J	2.61;J	2.41;J	11.6;J
151	135 + 151 + 154	C135 J					
152		1.04;J	81.4;J	3.55;J	2.90;J	1.28;J	3.86;J
153	153 + 168	4,920;C J	111,000;C J	117,000;C J	16,100;C J	5,540;C J	16,800;C J
154	135 + 151 + 154	C135 J					
155		3.50;J	14.4;J	3.36;J	9.17;J	4.27;J	8.39;J
156	156 + 157	654;C J	26,600;C J	31,400;C J	2,220;C J	735;C J	2,890;C J
157	156 + 157	C156 J					
158		304;J	17,400;J	12,900;J	1,400;J	403;J	1,520;J
159		4.52;J	179;J	121;J	8.30;J	8.21;J	41.0;J
160	129 + 138 + 160 + 163	C129 J					
161		0.434;UJ	1.91;UJ	1.69;UJ	0.944;UJ	0.485;UJ	0.525;UJ
162		23.2;J	530;J	610;J	63.5;J	27.0;J	90.1;J
163	129 + 138 + 160 + 163	C129 J					
164		97.0;J	7,230;J	6,480;J	192;J	131;J	643;J
165		2.69;J	23.3;J	17.3;J	7.27;J	3.30;J	8.05;J
166	128 + 166	C128 J					
167		226;J	6,500;J	9,650;J	428;J	239;J	961;J
168	153 + 168	C153 J					
169		1.52;UJ	7.28;UJ	4.49;UJ	2.75;UJ	1.29;UJ	5.03;UJ
170		457;J	12,100;J	9,940;J	2,280;J	661;J	2,100;J
171	171 + 173	150;C J	3,890;C J	1,810;C J	685;C J	233;C J	711;C J
172		69.6;J	1,560;J	1,280;J	299;J	106;J	380;J
173	171 + 173	C171 J					
174		104;J	4,840;J	3,590;J	209;J	182;J	994;J
175		18.4;J	314;J	237;J	46.3;J	24.9;J	94.3;J
176		17.2;J	624;J	211;J	29.3;J	29.1;J	191;J
177		251;J	3,800;J	3,400;J	371;J	344;J	1,630;J
178		171;J	1,580;J	1,080;J	476;J	236;J	720;J
179		92.8;J	1,840;J	191;J	210;J	159;J	686;J
180	180 + 193	1,460;C J	20,600;C J	18,800;C J	5,930;C J	2,020;C J	5,400;C J
181		10.8;J	357;J	397;J	42.4;J	13.0;J	56.9;J
182		3.79;J	81.8;J	34.7;J	16.9;J	7.22;J	16.1;J
183	183 + 185	426;C J	6,240;C J	4,050;C J	1,620;C J	573;C J	1,660;C J
184		3.59;J	24.4;J	7.99;J	10.1;J	4.56;J	10.7;J
185	183 + 185	C183 J					
186		0.0545;UJ	5.14;J	0.189;UJ	0.107;UJ	0.0710;UJ	0.0926;UJ
187		1,510;J	8,670;J	7,970;J	2,500;J	1,730;J	4,520;J
188		3.76;J	18.2;J	12.3;J	6.22;J	4.27;J	10.8;J
189		21.6;J	482;J	531;J	75.9;J	25.0;J	113;J
190		180;J	2,350;J	1,570;J	647;J	229;J	624;J
191		27.5;J	465;J	419;J	117;J	34.8;J	98.0;J
192		0.0591;UJ	0.504;UJ	0.205;UJ	0.122;UJ	0.0810;UJ	0.106;UJ
193	180 + 193	C180 J					
194		170;J	1,720;J	1,170;J	688;J	215;J	654;J
195		85.6;J	777;J	433;J	357;J	125;J	330;J
196		117;J	881;J	597;J	445;J	141;J	349;J
197	197 + 200	19.2;C J	189;C J	88.1;C J	60.8;C J	26.1;C J	105;C J
198	198 + 199	243;C J	1,610;C J	1,150;C J	547;C J	277;C J	896;C J
199	198 + 199	C198 J					
200	197 + 200	C197 J					
201		41.0;J	226;J	135;J	76.8;J	47.0;J	159;J
202		104;J	642;J	296;J	284;J	128;J	486;J
203		241;J	1,620;J	702;J	828;J	279;J	804;J
204		0.401;J	1.71;J	0.991;J	1.09;J	0.527;J	1.17;J
205		11.1;J	97.9;J	42.2;J	39.9;J	14.0;J	49.8;J
206		93.9;J	749;J	335;J	276;J	103;J	364;J
207		18.9;J	107;J	60.7;J	50.6;J	21.5;J	56.0;J
208		30.3;J	163;J	95.8;J	57.8;J	35.3;J	132;J
209		39.1;J	164;J	83.2;J	74.2;J	43.0;J</td	

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
**(Page 3 of 12)**

IUPAC #	COELUTING CONGENERS1	Forebay 07 06/05/204SB 6/5/2006	Forebay 08 06/05/205SB 6/5/2006	Forebay 09 06/05/207SB 6/5/2006	Forebay 10 06/05/208SB 6/5/2006	Forebay 11 06/05/209SB 6/5/2006	Forebay 12 06/05/202SB 6/6/2006
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.309 UJ	0.773 J	0.243 UJ	0.293 UJ	1.73 J	0.572 J
2		0.614 J	0.561 J	0.370 J	0.519 J	1.46 J	0.686 J
3		0.271 UJ	0.442 UJ	0.241 UJ	0.253 UJ	1.07 J	0.372 UJ
4		5.78 J	3.17 J	3.09 J	2.50 J	8.16 J	2.95 J
5		0.247 J	0.230 J	0.156 J	0.203 UJ	0.784 J	0.353 UJ
6		2.86 J	1.61 J	1.77 J	1.45 J	9.01 J	3.84 J
7		0.517 J	0.449 J	0.347 J	0.313 J	3.98 J	0.315 UJ
8		11.3 J	6.68 J	7.60 J	7.19 J	40.1 J	6.89 J
9		0.701 J	0.579 J	0.385 J	0.381 J	5.89 J	0.387 J
10		0.337 J	0.176 J	0.155 J	0.186 UJ	0.422 J	0.323 UJ
11		130 J	53.0 J	57.2 J	95.6 J	136 J	39.3 J
12	12 + 13	0.0580 C UJ	1.77 C J	0.122 C UJ	0.178 C UJ	5.72 C J	2.78 C J
13	12 + 13	C12 J					
14		0.157 J	0.122 J	0.127 J	0.179 UJ	0.264 J	0.321 UJ
15		3.49 J	1.95 J	1.85 J	2.53 J	14.1 J	2.10 J
16		19.1 J	9.76 J	10.2 J	10.6 J	39.5 J	7.89 J
17		39.4 J	27.2 J	16.4 J	17.3 J	317 J	13.3 J
18	18 + 30	59.7 C J	44.0 C J	34.1 C J	39.2 C J	825 C J	26.5 C J
19		9.56 J	2.79 J	2.77 J	2.87 J	8.54 J	2.73 J
20	20 + 28	235 C J	414 C J	149 C J	276 C J	5,550 C J	124 C J
21	21 + 33	46.2 C J	39.0 C J	27.6 C J	42.7 C J	606 C J	21.5 C J
22		57.0 J	33.8 J	28.6 J	56.3 J	380 J	18.9 J
23		0.162 J	0.351 J	0.135 UJ	0.239 J	1.95 UJ	0.474 UJ
24		1.10 J	0.754 J	0.657 J	0.698 EMPC	2.82 J	0.510 J
25		10.7 J	12.0 J	4.48 J	9.33 J	418 J	4.30 J
26	26 + 29	27.8 C J	49.1 C J	15.6 C J	24.9 C J	745 C J	13.9 C J
27		7.72 J	4.79 J	2.52 J	3.03 J	46.8 J	2.19 J
28	20 + 28	C20 J					
29	26 + 29	C26 J					
30	18 + 30	C18 J					
31		118 J	117 J	79.5 J	127 J	5,070 J	66.7 J
32		10.2 J	14.3 J	3.98 J	6.27 J	198 J	3.98 J
33	21 + 33	C21 J					
34		0.852 J	0.758 J	0.326 J	0.544 EMPC	7.40 J	0.464 UJ
35		0.0913 UJ	0.111 UJ	0.142 UJ	0.155 UJ	2.13 UJ	0.486 UJ
36		0.0829 UJ	0.101 UJ	0.129 UJ	0.141 UJ	1.88 UJ	0.449 UJ
37		24.5 J	46.5 J	10.3 J	19.9 J	696 J	15.2 J
38		0.168 EMPC	1.01 EMPC	0.186 J	0.406 EMPC	12.3 J	0.445 UJ
39		1.47 J	6.17 J	0.993 J	1.56 EMPC	112 EMPC	1.51 J
40	40 + 41 + 71	107 C J	653 C J	51.7 C J	119 C J	14,200 C J	95.0 C J
41	40 + 41 + 71	C40 J					
42		98.2 J	541 J	39.6 J	123 J	10,100 J	66.8 J
43		14.0 J	97.3 J	8.42 J	19.8 J	1,990 J	23.1 J
44	44 + 47 + 65	450 C J	6,430 C J	302 C J	850 C J	138,000 C J	894 C J
45	45 + 51	31.2 C J	64.9 C J	11.9 C J	27.0 C J	1,040 C J	14.0 C J
46		5.76 J	8.54 J	2.51 J	4.15 J	96.3 J	2.43 J
47	44 + 47 + 65	C44 J					
48		70.0 J	299 J	37.0 J	77.8 J	4,900 J	56.7 J
49	49 + 69	346 C J	7,290 C J	236 C J	636 C J	123,000 C J	886 C J
50	50 + 53	27.9 C J	132 C J	8.52 C J	27.8 C J	3,160 C J	13.7 C J
51	45 + 51	C45 J					
52		678 J	24,100 J	585 J	1,180 J	351,000 J	2,990 J
53	50 + 53	C50 J					
54		2.13 J	1.45 J	0.266 J	0.677 J	7.71 J	0.573 UJ
55		0.445 UJ	0.677 UJ	0.360 UJ	0.478 UJ	26.4 UJ	0.304 UJ
56		124 J	357 J	44.9 J	145 J	24,900 J	87.5 J
57		2.70 J	6.38 J	1.83 J	3.28 J	27.6 UJ	1.98 J
58		2.65 J	0.667 UJ	1.57 J	0.471 UJ	25.4 UJ	0.297 UJ
59	59 + 62 + 75	39.1 C J	162 C J	25.3 C J	63.8 C J	2,120 C J	33.1 C J
60		197 J	2,070 J	156 J	484 J	30,200 J	315 J
61	61 + 70 + 74 + 76	1,140 C J	22,400 C J	1,010 C J	2,360 C J	368,000 C J	4,730 C J
62	59 + 62 + 75	C59 J					
63		47.9 J	573 J	38.2 J	120 J	9,180 J	164 J
64		231 J	2,870 J	135 J	415 J	45,400 J	397 J
65	44 + 47 + 65	C44 J					
66		912 J	12,700 J	735 J	1,700 J	143,000 J	2,690 J
67		9.53 J	20.3 J	5.00 J	12.9 J	278 J	7.81 J
68		9.92 J	15.8 J	7.94 J	22.6 J	297 J	14.3 J
69	49 + 69	C49 J					
70	61 + 70 + 74 + 76	C61 J					
71	40 + 41 + 71	C40 J					
72		13.5 J	48.9 J	9.54 J	23.4 J	469 J	10.6 J
73		0.0495 UJ	0.0491 UJ	0.132 UJ	0.119 UJ	0.516 UJ	0.519 UJ
74	61 + 70 + 74 + 76	C61 J					
75	59 + 62 + 75	C59 J					
76	61 + 70 + 74 + 76	C61 J					
77		62.4 J	214 J	36.7 J	77.2 J	3,530 J	102 J
78		0.446 UJ	0.679 UJ	1.43 J	0.479 UJ	343 J	0.302 UJ
79		10.8 J	558 J	8.22 J	26.0 J	11,000 J	37.9 J
80		0.399 UJ	0.607 UJ	0.323 UJ	0.429 UJ	22.6 UJ	0.269 UJ
81		3.24 J	19.1 EMPC	2.33 J	5.76 J	23.1 UJ	8.07 J
82		54.1 J	5,760 J	37.2 J	151 J	125,000 J	209 J
83	83 + 99	2,530 C J	105,000 C J	3,470 C J	6,850 C J	1,050,000 C J	16,400 C J
84		123 J	6,710 J	72.6 J	306 J	180,000 J	340 J
85	85 + 116 + 117	800 C J	30,300 C J	985 C J	2,030 C J	327,000 C J	4,910 C J
86	86 + 87 + 97 + 108 + 119 + 125	924 C J	72,700 C J	1,020 C J	2,520 C J	890,000 C J	5,580 C J
87	86 + 87 + 97 + 108 + 119 + 125	C86 J					
88	88 + 91	144 C J	7,680 C J	90.0 C J	433 C J	168,000 C J	453 C J
89		3.86 J	143 J	2.75 J	5.54 J	3,000 J	12.4 J
90	90 + 101 + 113	2,110 C J	127,000 C J	2,350 C J	5,740 C J	1,400,000 C J	10,700 C J
91	88 + 91	C88 J					
92		498 J	19,500 J	530 J	1,280 J	213,000 J	2,110 J
93	93 + 95 + 98 + 100 + 102	725 C J	30,600 C J	614 C J	1,860 C J	573,000 C J	3,170 C J
94		3.56 J	26.0 J	0.809 J	6.30 J	906 J	3.63 UJ
95	93 + 95 + 98 + 100 + 102	C93 J					
96		4.54 J	100 J	2.75 J	5.53 J	1,710 J	14.9 J
97	86 + 87 + 97 + 108 + 119 + 125	C86 J					
98	93 + 95 + 98 + 100 + 102	C93 J					
99	83 + 99	C83 J					
100	93 + 95 + 98 + 100 + 102	C93 J					
101	90 + 101 + 113	C90 J					
102	93 + 95 + 98 + 100 + 102	C93 J					
103		12.8 J	278 J	8.15 J	30.1 J	5,180 J	25.7 J
104		0.908 J	0.778 J	0.221 UJ	0.648 EMPC	9.27 EMPC	1.06 UJ
105		1,540 J	66,300 J	2,090 J	3,910 J	766,000 J	11,200 J
106		0.513 UJ	4.87 UJ	0.401 UJ	0.998 UJ	65.3 UJ	2.37 UJ
107	107 + 124	78.3 C J	2,410 C J	83.0 C J	136 C J	55,600 C J	472 C J
108	86 + 87 + 97 + 108 + 119 + 125	C86 J					
109		392 J	13,100 J	432 J	922 J	185,000 J	3,260 J
110	110 + 115	1,660 C J	111,000 C J	1,680 C J	4,280 C J	1,270,000 C J	8,470 C J
111		5.71 J	5.58 EMPC	5.01 J	12.5 J	56.0 UJ	4.89 J
112		0.199 UJ	0.631 UJ	0.279 UJ	0.935 UJ	56.1 UJ	2.37 UJ
113	90 + 101 + 113	C90 J					
114		120 J	4,870 J	173 J	332 J	65,700 J	1,680 J
115	110 + 115	C110 J					
116	85 + 116 + 117	C85 J					
117	85 + 116 + 117	C85 J					
118		3,750 J	199,000 J				

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay 07 06/06/05204SB 6/5/2006	Forebay 08 06/06/05205SB 6/5/2006	Forebay 09 06/06/05207SB 6/5/2006	Forebay 10 06/06/05208SB 6/5/2006	Forebay 11 06/06/05209SB 6/5/2006	Forebay 12 06/06/05209SB 6/6/2006
127		9.34J	341J	16.1J	26.6J	3,700J	142J
128	128 + 166	1,240C J	42,000C J	1,590C J	2,740C J	336,000C J	6,640C J
129	129 + 138 + 160 + 163	8,070C J	239,000C J	10,400C J	20,400C J	1,940,000C J	42,300C J
130		268J	11,200J	271J	707J	126,000J	1,190J
131		12.3J	992J	9.83J	43.3J	18,200J	50.5J
132		352J	23,200J	240J	1,180J	394,000J	777J
133		162J	2,110J	175J	353J	22,300J	519J
134	134 + 143	76.7C J	3,770C J	58.6C J	198C J	63,500C J	235C J
135	135 + 151 + 154	1,170C J	19,900C J	1,090C J	2,680C J	266,000C J	2,070C J
136		166J	5,920J	138J	364J	89,500J	484J
137		344J	20,000J	606J	997J	220,000J	5,410J
138	129 + 138 + 160 + 163	C129 J					
139	139 + 140	130 C J	4,370 C J	185 C J	330 C J	41,300 C J	695 C J
140	139 + 140	C139 J					
141		365J	24,000J	462J	1,330J	250,000J	2,050J
142		0.780UJ	3.11UJ	0.923UJ	1.47UJ	207J	1.34UJ
143	134 + 143	C134 J					
144		77.5J	3,460J	75.2J	244J	53,200J	251J
145		0.371J	19.0J	0.263 EMPC	0.756J	356J	0.947 UJ
146		1,300J	25,100J	1,440J	3,290J	291,000J	7,220J
147	147 + 149	1,180C J	37,500C J	738C J	4,390C J	598,000C J	2,150C J
148		9.25J	60.0J	7.44J	21.6J	667J	9.36J
149	147 + 149	C147 J					
150		3.54J	37.2J	1.41J	8.48J	863J	2.73J
151	135 + 151 + 154	C135 J					
152		2.82J	76.3J	2.39J	5.33J	891J	9.98J
153	153 + 168	8,500C J	179,000C J	11,200C J	23,100C J	1,440,000C J	48,200C J
154	135 + 151 + 154	C135 J					
155		9.28J	12.9J	8.48J	14.6J	1.01UJ	5.88J
156	156 + 157	846C J	44,600C J	1,360C J	2,390C J	403,000C J	12,800C J
157	156 + 157	C156 J					
158		660J	24,500J	914J	1,730J	237,000J	3,500J
159		8.36J	129J	5.18J	26.1J	3,140J	12.1J
160	129 + 138 + 160 + 163	C129 J					
161		0.542UJ	2.16UJ	0.641UJ	1.02UJ	79.8UJ	0.955UJ
162		38.3J	846J	47.4J	83.7J	9,120J	245J
163	129 + 138 + 160 + 163	C129 J					
164		162J	8,820J	154J	478J	91,900J	601J
165		6.29J	26.0J	5.87J	11.5J	88.0UJ	8.76J
166	128 + 166	C128 J					
167		250J	9,350J	311J	574J	116,000J	3,650J
168	153 + 168	C153 J					
169		2.60UJ	11.2UJ	3.27UJ	5.08UJ	127UJ	8.24UJ
170		1,140J	18,900J	1,310J	2,570J	198,000J	4,720J
171	171 + 173	493C J	5,310C J	520C J	1,050C J	60,300C J	890C J
172		171J	2,540J	191J	441J	31,600J	652J
173	171 + 173	C171 J					
174		190J	4,060J	134J	755J	117,000J	303J
175		35.7J	424J	38.0J	103J	6,570J	104J
176		38.8J	362J	22.3J	124J	11,700J	31.7J
177		429J	4,150J	408J	1,210J	87,300J	1,240J
178		447J	2,160J	481J	970J	27,700J	627J
179		302J	1,680J	244J	632J	26,800J	221J
180	180 + 193	3,040C J	33,300C J	3,570C J	7,510C J	348,000C J	18,200C J
181		19.3J	639J	28.7J	49.6J	6,320J	172J
182		10.9J	122J	11.7J	28.2J	1,130J	27.0J
183	183 + 185	1,060C J	9,230C J	1,180C J	2,510C J	120,000C J	2,000C J
184		10.7J	28.5J	10.6J	18.2J	122J	7.27J
185	183 + 185	C183 J					
186		0.0495UJ	0.441UJ	0.0658UJ	0.148UJ	42.4J	0.396UJ
187		2,260J	12,300J	2,470J	5,940J	159,000J	9,320J
188		6.04J	19.7J	5.77J	13.0J	139J	7.69J
189		39.0J	841J	49.1J	91.0J	9,300J	324J
190		440J	3,580J	487J	870J	36,500J	1,210J
191		60.0J	756J	70.6J	138J	9,430J	300J
192		0.0519UJ	0.503UJ	0.0750UJ	0.168UJ	11.4UJ	0.450UJ
193	180 + 193	C180 J					
194		399J	3,090J	421J	783J	52,500J	1,790J
195		265J	1,220J	242J	467J	18,800J	568J
196		255J	1,600J	260J	535J	31,000J	991J
197	197 + 200	49.5C J	227C J	45.5C J	112C J	6,130C J	55.2C J
198	198 + 199	371C J	3,050C J	401C J	986C J	59,600C J	2,060C J
199	198 + 199	C198 J					
200	197 + 200	C197 J					
201		70.5J	370J	73.0J	180J	6,980J	211J
202		267J	988J	294J	540J	11,000J	288J
203		587J	2,760J	618J	1,130J	21,900J	654J
204		0.903J	1.96J	0.933J	1.63J	2.98UJ	0.724J
205		29.1J	155J	32.2J	56.4J	1,520J	42.9J
206		217J	1,440J	233J	364J	13,600J	271J
207		41.6J	191J	41.9J	71.9J	2,550J	71.5J
208		58.0J	304J	57.1J	110J	3,140J	91.8J
209		93.6J	221J	82.5J	127J	1,080J	65.4J
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full RDL)		59.4J	1,734J	69.7J	149J	19,310J	325J
Total PCBs as Congeners (KM-based)		59.3J	1,733J	69.6J	149J		

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay 13 06/06/06103SB 6/6/2006	Forebay 14 06/06/06104SB 6/6/2006	Forebay 15 06/06/06210SB 6/6/2006	Forebay 16 06/08/15402SB 8/15/2006	Forebay 17 06/08/15403SB 8/15/2006	Forebay 18 06/08/15405SB 8/15/2006
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.484 J	0.235 UJ	0.194 UJ	7.14 J	1.31 J	0.428 J
2		0.548 J	0.237 J	0.262 J	2.84 J	1.44 J	1.01 J
3		0.328 UJ	0.0502 UJ	0.263 UJ	8.28 J	1.09 J	0.535 UJ
4		3.76 J	2.13 J	1.79 J	909 J	11.5 J	2.21 J
5		0.219 UJ	0.0900 J	0.120 J	138 J	0.424 J	0.293 UJ
6		1.98 J	1.43 J	1.01 J	1,620 J	13.7 J	1.66 J
7		0.457 J	0.225 J	0.282 J	396 J	5.86 J	0.504 J
8		8.63 J	5.25 J	4.62 J	7,240 J	50.4 J	6.14 J
9		0.788 J	0.318 J	0.266 J	643 J	16.4 J	4.94 J
10		0.206 J	0.134 J	0.131 EMPC	54.3 J	0.934 J	0.343 J
11		67.5 J	35.4 J	28.4 J	230 J	404 J	495 J
12	12 + 13	1.60 C J	0.831 C J	0.622 C J	72.2 C J	11.4 C J	9.28 C J
13	12 + 13	C12 J	C12 J	C12 J	C12 J	C12 J	C12 J
14		0.199 UJ	0.0990 J	0.0890 EMPC	0.557 J	0.176 J	0.269 UJ
15		2.18 J	1.83 J	1.30 J	1,570 J	282 J	112 J
16		12.2 J	6.26 J	5.82 J	7,050 J	117 UJ	10.1 J
17		53.1 J	8.97 J	9.45 J	14,300 J	1,360 J	37.9 J
18	18 + 30	69.5 C J	19.8 C J	20.0 C J	23,000 C J	3,090 C J	130 C J
19		4.50 J	1.89 J	1.71 J	1,290 J	23.0 J	2.66 J
20	20 + 28	452 C J	83.0 C J	90.8 C J	76,900 C J	16,100 C J	1,210 C J
21	21 + 33	49.6 C J	15.3 C J	15.8 C J	19,100 C J	2,280 C J	45.4 C J
22		43.2 J	15.2 J	16.8 J	23,500 J	856 J	45.5 J
23		0.348 J	0.0950 J	0.102 J	86.4 J	79.3 UJ	0.486 EMPC
24		0.763 J	0.415 J	0.371 J	438 J	72.8 UJ	0.790 J
25		11.8 J	2.65 J	3.11 J	4,840 J	1,140 J	125 J
26	26 + 29	61.2 C J	8.94 C J	9.60 C J	11,100 C J	2,340 C J	279 C J
27		12.0 J	1.32 J	1.30 J	1,050 J	224 EMPC	12.7 J
28	20 + 28	C20 J	C20 J	C20 J	C20 J	C20 J	C20 J
29	26 + 29	C26 J	C26 J	C26 J	C26 J	C26 J	C26 J
30	18 + 30	C18 J	C18 J	C18 J	C18 J	C18 J	C18 J
31		162 J	43.7 J	47.8 J	59,700 J	12,200 J	837 J
32		32.5 J	2.41 J	2.53 J	7,510 J	647 J	12.6 J
33	21 + 33	C21 J	C21 J	C21 J	C21 J	C21 J	C21 J
34		1.30 J	0.190 EMPC	0.195 EMPC	192 J	103 J	4.10 J
35		0.238 UJ	0.0502 UJ	0.0500 UJ	2.40 UJ	87.5 UJ	0.310 UJ
36		0.220 UJ	0.0502 UJ	0.0500 UJ	2.24 UJ	79.2 UJ	0.290 UJ
37		41.1 J	6.02 J	5.12 J	5,850 J	2,950 J	189 J
38		1.45 EMPC	0.0830 EMPC	0.0930 J	30.3 J	78.2 UJ	1.93 J
39		7.99 J	0.495 J	0.556 J	264 J	349 J	9.61 J
40	40 + 41 + 71	688 C J	21.2 C J	29.2 C J	13,600 C J	22,900 C J	799 C J
41	40 + 41 + 71	C40 J	C40 J	C40 J	C40 J	C40 J	C40 J
42		377 J	15.9 J	27.3 J	11,400 J	19,000 J	879 J
43		108 J	4.52 J	5.91 J	2,280 J	15,800 J	104 J
44	44 + 47 + 65	6,400 C J	135 C J	281 C J	47,500 C J	200,000 C J	10,100 C J
45	45 + 51	70.9 C J	7.19 C J	20.5 C J	7,400 C J	1,720 C J	63.2 C J
46		7.84 J	1.66 J	1.63 J	1,490 J	307 J	7.73 J
47	44 + 47 + 65	C44 J	C44 J	C44 J	C44 J	C44 J	C44 J
48		305 J	18.2 J	23.4 J	11,000 J	13,900 J	339 J
49	49 + 69	6,590 C J	102 C J	173 C J	34,200 C J	194,000 C J	15,100 C J
50	50 + 53	54.9 C J	5.53 C J	7.57 C J	2,630 C J	6,170 C J	124 C J
51	45 + 51	C45 J	C45 J	C45 J	C45 J	C45 J	C45 J
52		21,200 J	256 J	424 J	54,300 J	733,000 J	43,900 J
53	50 + 53	C50 J	C50 J	C50 J	C50 J	C50 J	C50 J
54		2.74 J	0.152 J	0.135 J	56.1 J	90.2 J	1.02 J
55		0.876 UJ	0.479 UJ	0.476 UJ	185 J	28,800 J	7.12 UJ
56		253 J	19.6 J	26.2 J	2,560 J	52,400 J	3,280 J
57		0.863 UJ	1.10 J	1.39 J	231 J	631 UJ	19.2 J
58		0.855 UJ	1.04 J	1.38 J	46.8 J	654 UJ	7.05 UJ
59	59 + 62 + 75	162 C J	12.6 C J	18.4 C J	4,870 C J	6,050 C J	250 C J
60		1,750 J	68.2 J	100 J	2,600 J	52,200 J	5,430 J
61	61 + 70 + 74 + 76	19,800 C J	445 C J	719 C J	39,800 C J	1,000,000 C J	87,000 C J
62	59 + 62 + 75	C59 J	C59 J	C59 J	C59 J	C59 J	C59 J
63		571 J	21.2 J	30.6 J	1,470 J	15,400 J	1,520 J
64		2,450 J	65.2 J	96.7 J	20,400 J	56,100 J	2,800 J
65	44 + 47 + 65	C44 J	C44 J	C44 J	C44 J	C44 J	C44 J
66		12,700 J	335 J	510 J	18,500 J	371,000 J	39,600 J
67		27.3 J	3.32 J	5.02 J	988 J	985 J	81.3 J
68		26.2 J	4.29 J	20.8 J	101 J	611 UJ	76.8 J
69	49 + 69	C49 J	C49 J	C49 J	C49 J	C49 J	C49 J
70	61 + 70 + 74 + 76	C61 J	C61 J	C61 J	C61 J	C61 J	C61 J
71	40 + 41 + 71	C40 J	C40 J	C40 J	C40 J	C40 J	C40 J
72		45.6 J	5.71 J	7.99 J	219 J	826 J	87.6 J
73		0.221 UJ	0.0502 UJ	0.0500 UJ	0.0491 UJ	20,600 J	0.494 UJ
74	61 + 70 + 74 + 76	C61 J	C61 J	C61 J	C61 J	C61 J	C61 J
75	59 + 62 + 75	C59 J	C59 J	C59 J	C59 J	C59 J	C59 J
76	61 + 70 + 74 + 76	C61 J	C61 J	C61 J	C61 J	C61 J	C61 J
77		186 J	21.7 J	23.6 J	334 J	8,950 J	577 J
78		0.872 UJ	0.609 J	0.447 J	15.1 J	1,340 J	6.70 UJ
79		192 J	3.22 J	6.88 J	300 J	21,400 J	1,850 J
80		0.775 UJ	0.622 J	0.819 J	6.53 UJ	552 UJ	6.16 UJ
81		11.7 J	1.21 J	1.30 J	19.8 J	1,190 J	6.15 UJ
82		1,130 J	12.1 J	33.4 J	2,130 J	175,000 J	10,300 J
83	83 + 99	88,200 C J	1,250 C J	2,570 C J	41,700 C J	1,680,000 C J	117,000 C J
84		1,690 J	33.2 J	62.8 J	3,630 J	201,000 J	7,280 J
85	85 + 116 + 117	26,600 C J	350 C J	723 C J	11,800 C J	483,000 C J	52,200 C J
86	86 + 87 + 97 + 108 + 119 + 125	38,900 C J	326 C J	843 C J	25,200 C J	1,350,000 C J	81,900 C J
87	86 + 87 + 97 + 108 + 119 + 125	C86 J					

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay 13 06/06/0610SB 6/6/2006	Forebay 14 06/06/0610SB 6/6/2006	Forebay 15 06/06/06210SB 6/6/2006	Forebay 16 06/08/15402SB 8/15/2006	Forebay 17 06/08/15403SB 8/15/2006	Forebay 18 06/08/15405SB 8/15/2006
127		416 J	5.94 J	12.0 J	191 J	8,100 J	878 J
128	128 + 166	33,300 C J	652 C J	1,300 C J	13,100 C J	427,000 C J	67,600 C J
129	129 + 138 + 160 + 163	197,000 C J	4,410 C J	8,540 C J	81,400 C J	2,530,000 C J	252,000 C J
130		5,270 J	121 J	237 J	3,050 J	175,000 J	21,000 J
131		285 J	3.19 J	9.41 J	331 J	29,100 J	2,380 J
132		3,870 J	100 J	216 J	6,160 J	425,000 J	37,400 J
133		1,760 J	92.0 J	140 J	862 J	27,900 J	4,180 J
134	134 + 143	1,120 C J	26.2 C J	56.7 C J	1,220 C J	93,900 C J	8,960 C J
135	135 + 151 + 154	13,300 C J	539 C J	910 C J	6,210 C J	272,000 C J	30,200 C J
136		2,960 J	60.1 J	117 J	1,870 J	78,000 J	8,580 J
137		19,600 J	199 J	481 J	7,880 J	274,000 J	39,500 J
138	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
139	139 + 140	3,450 C J	74.7 C J	158 C J	1,480 C J	49,200 C J	7,460 C J
140	139 + 140	C139 J	C139 J	C139 J	C139 J	C139 J	C139 J
141		16,700 J	188 J	466 J	7,660 J	242,000 J	35,300 J
142		2.66 UJ	0.710 UJ	1.91 UJ	20.4 UJ	758 UJ	72.1 UJ
143	134 + 143	C134 J	C134 J	C134 J	C134 J	C134 J	C134 J
144		1,410 J	30.9 J	71.6 J	997 J	61,000 J	6,970 J
145		8.05 J	0.0760 EMPC	0.137 EMPC	6.49 J	469 J	34.9 J
146		21,800 J	725 J	1,180 J	10,300 J	313,000 J	48,400 J
147	147 + 149	11,400 C J	358 C J	756 C J	12,800 C J	948,000 C J	86,000 C J
148		44.1 J	3.98 J	6.79 J	24.1 J	776 J	99.2 J
149	147 + 149	C147 J	C147 J	C147 J	C147 J	C147 J	C147 J
150		9.25 J	0.865 J	1.86 J	19.7 J	1,250 J	92.7 J
151	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
152		61.5 J	1.09 J	1.87 J	26.9 J	522 J	92.1 J
153	153 + 168	169,000 C J	5,570 C J	8,780 C J	73,000 C J	1,890,000 C J	202,000 C J
154	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
155		17.4 J	5.76 J	6.54 J	6.74 J	60.2 J	13.7 J
156	156 + 157	38,600 C J	541 C J	1,200 C J	16,900 C J	486,000 C J	83,000 C J
157	156 + 157	C156 J	C156 J	C156 J	C156 J	C156 J	C156 J
158		19,700 J	366 J	737 J	7,890 J	254,000 J	39,300 J
159		56.4 J	3.82 J	5.12 J	56.0 J	3,990 J	336 J
160	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
161		1.89 UJ	0.466 UJ	1.26 UJ	13.4 UJ	504 UJ	47.3 UJ
162		814 J	25.4 J	39.1 J	355 J	11,100 J	1,900 J
163	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
164		3,780 J	71.2 J	145 J	2,380 J	112,000 J	14,600 J
165		27.6 J	3.71 J	4.81 J	15.5 UJ	596 UJ	54.8 J
166	128 + 166	C128 J	C128 J	C128 J	C128 J	C128 J	C128 J
167		7,990 J	161 J	270 J	4,710 J	140,000 J	21,000 J
168	153 + 168	C153 J	C153 J	C153 J	C153 J	C153 J	C153 J
169		14.5 UJ	3.47 UJ	3.18 UJ	15.1 UJ	607 UJ	28.0 UJ
170		13,700 J	727 J	994 J	7,860 J	177,000 J	36,200 J
171	171 + 173	3,840 C J	301 C J	380 C J	1,690 C J	42,900 C J	8,260 C J
172		1,760 J	106 J	134 J	1,000 J	22,100 J	3,960 J
173	171 + 173	C171 J	C171 J	C171 J	C171 J	C171 J	C171 J
174		1,320 J	75.5 J	117 J	1,340 J	73,500 J	8,130 J
175		282 J	20.8 J	29.6 J	154 J	4,970 J	715 J
176		168 J	12.2 J	20.8 J	164 J	8,700 J	829 J
177		1,960 J	205 J	293 J	1,690 J	58,800 J	8,090 J
178		1,780 J	280 J	341 J	1,080 J	14,900 J	2,760 J
179		1,090 J	136 J	180 J	609 J	14,400 J	2,080 J
180	180 + 193	26,800 C J	2,150 C J	2,430 C J	17,300 C J	248,000 C J	59,100 C J
181		496 J	13.8 J	23.3 J	228 J	6,480 J	1,070 J
182		101 J	7.71 J	10.7 J	47.5 J	1,120 J	194 J
183	183 + 185	6,770 C J	667 C J	822 C J	3,710 C J	72,000 C J	15,100 C J
184		29.3 J	7.56 J	8.12 J	12.1 J	139 EMPC	36.6 J
185	183 + 185	C183 J	C183 J	C183 J	C183 J	C183 J	C183 J
186		0.340 UJ	0.0502 UJ	0.0770 EMPC	0.946 J	46.6 J	5.53 J
187		9,470 J	1,350 J	1,760 J	8,810 J	100,000 J	20,900 J
188		17.6 J	3.66 J	4.84 J	10.7 J	213 J	32.2 J
189		661 J	31.1 J	40.7 J	402 J	10,100 J	1,880 J
190		2,670 J	301 J	347 J	1,390 J	29,200 J	6,200 J
191		616 J	40.9 J	50.5 J	299 J	7,110 J	1,240 J
192		0.387 UJ	0.0502 UJ	0.0530 UJ	0.342 UJ	48.5 UJ	1.28 UJ
193	180 + 193	C180 J	C180 J	C180 J	C180 J	C180 J	C180 J
194		2,410 J	310 J	295 J	1,860 J	17,900 J	5,150 J
195		1,050 J	187 J	175 J	648 J	6,840 J	1,800 J
196		1,210 J	176 J	173 J	812 J	8,560 J	2,070 J
197	197 + 200	165 C J	32.7 C J	32.1 C J	104 C J	2,030 C J	315 C J
198	198 + 199	1,840 C J	240 C J	288 C J	1,980 C J	17,500 C J	4,200 C J
199	198 + 199	C198 J	C198 J	C198 J	C198 J	C198 J	C198 J
200	197 + 200	C197 J	C197 J	C197 J	C197 J	C197 J	C197 J
201		260 J	47.3 J	55.5 J	183 J	2,050 EMPC	448 J
202		860 J	214 J	233 J	582 J	3,110 J	1,290 J
203		2,060 J	438 J	415 J	997 J	10,300 J	3,080 J
204		2.47 J	0.682 J	0.668 J	1.21 J	55.9 J	3.13 J
205		123 J	24.8 J	23.5 J	64.5 J	923 J	237 J
206		928 J	199 J	179 J	546 J	5,570 J	2,020 J
207		134 J	36.5 J	31.6 J	88.1 J	702 J	247 J
208		182 J	44.9 J	45.3 J	168 J	1,370 J	404 J
209		214 J	85.3 J	69.8 J	132 J	841 J	342 J
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full RDL)		1,306 J	32.2 J	54.8 J	1,193 J	26,511 J	2,482 J
Total PCBs as Congeners (KM-based)							

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay 19 0608/5406SB 8/15/2006	Forebay SUCKER 07050SL5 5/5/2007	Reference 20 071027R01SB 10/27/2007	Reference 21 071027R02SB 10/27/2007	Reference 22 071027R03SB 10/27/2007	Reference 23 071027R04SB 10/27/2007	Reference 24 071027R05SB 10/27/2007
Individual Congeners in pg/g (ng/kg), wet weight								
1		0.226 UJ	0.861	50.7	257	2.64	4.88	1.42 EMPC
2		0.829 J	1.21	149	612	4.99	9.99	2.43 EMPC
3		0.279 UJ	0.482 U	7.52	330	6.57 EMPC	7.75	3.38 EMPC
4		1.77 J	13.2	6.49 U	5.78	7.12 U	6.84 U	25.4 EMPC
5		0.153 J	0.781	4.36 U	6.32	4.90 U	5.03 U	3.65 U
6		0.912 J	6.80	6.85 EMPC	13.8	4.39 U	4.51 U	16.8
7		0.276 J	0.791	3.99 U	13.9	4.50 U	4.63 U	3.36 U
8		4.78 J	27.4	8.40	12.8 EMPC	6.67	7.82 EMPC	66.7
9		0.284 J	1.18	3.93 U	10.7 EMPC	4.36 U	4.48 U	3.25 U
10		0.178 J	0.563	3.80 U	4.15	4.10 U	4.21 U	3.05 U
11		562 J	456	644	519	930	748	1,070
12	12 + 13	0.126 C UJ	0.120 C U	22.6 C EMPC	31.4 C	4.77 C U	4.90 C U	3.55 C U
13	12 + 13	C12 J	C12	C12	C12	C12	C12	C12
14		0.130 J	0.199	4.14 U	10.9	4.54 U	4.66 U	3.38 U
15		9.51 J	7.07	9.85	5.92 EMPC	5.64 U	6.03 U	17.8
16		5.61 J	68.5	8.46	9.14	11.3 EMPC	10.3 EMPC	113
17		7.65 J	97.3	11.7 EMPC	11.5	15.3	10.9	297
18	18 + 30	19.1 C J	164 C	25.4 C	23.8 C	33.0 C	25.8 C	458 C
19		1.65 J	12.1	3.24 EMPC	2.31	3.33 EMPC	2.16 EMPC	65.4
20	20 + 28	112 C J	514 C	146 C	145 C	180 C	120 C	1,760 C
21	21 + 33	14.8 C J	112 C	28.9 C	24.4 C	29.5 C	22.1 C EMPC	342 C
22		15.2 J	164	32.2	25.6	34.0	30.4	310
23		0.197 UJ	0.443	1.14 U	1.30 U	1.95 U	1.48 U	2.71 U
24		0.323 J	2.31	0.697 U	1.02 EMPC	0.913 U	1.11 EMPC	6.17 EMPC
25		3.31 J	16.3	5.67 EMPC	5.17	6.10 EMPC	2.00 EMPC	119
26	26 + 29	10.6 C J	43.9 C	15.9 C	14.8 C	18.3 C	12.5 C	305 C
27		1.25 J	18.8	2.19 EMPC	2.20	2.56 EMPC	1.75 EMPC	75.8
28	20 + 28	C20 J	C20	C20	C20	C20	C20	C20
29	26 + 29	C26 J	C26	C26	C26	C26	C26	C26
30	18 + 30	C18 J	C18	C18	C18	C18	C18	C18
31		47.1 J	248	84.8	74.6	97.2	73.2	889
32		2.07 J	16.3	4.00	3.47 EMPC	3.04	2.75 EMPC	236
33	21 + 33	C21 J	C21	C21	C21	C21	C21	C21
34		0.274 J	1.61	1.14 U	1.30 U	1.92 U	1.45 U	10.5 EMPC
35		0.290 EMPC	0.194 U	1.16 U	1.32 U	2.12 U	1.61 U	2.94 U
36		0.298 EMPC	0.181 U	1.12 U	1.28 U	1.87 U	1.42 U	2.60 U
37		28.0 J	32.8	17.1	13.6 EMPC	20.8 EMPC	16.9	127
38		0.192 UJ	0.696 EMPC	1.18 U	1.35 U	2.04 U	1.54 U	2.82 U
39		0.800 J	4.52	1.16 U	1.32 U	1.98 U	1.50 U	9.71 EMPC
40	40 + 41 + 71	21.2 C J	262 C	62.8 C	50.9 C	55.9 C	36.2 C	1,360 C
41	40 + 41 + 71	C40 J	C40	C40	C40	C40	C40	C40
42		15.1 J	327	48.5	37.9	48.6	31.1	727
43		4.05 J	25.2	8.55 EMPC	5.58 EMPC	9.93 EMPC	5.05	178
44	44 + 47 + 65	115 C J	1,690 C	308 C	257 C	311 C	164 C	4,190 C
45	45 + 51	8.63 C J	65.1 C	16.8 C	14.8 C	15.4 C	10.7 C	358 C
46		2.01 J	12.7	3.54	3.38	3.45 EMPC	2.68 EMPC	60.4
47	44 + 47 + 65	C44 J	C44	C44	C44	C44	C44	C44
48		13.3 J	202	38.3	32.1	1.11 U	21.7	503
49	49 + 69	82.0 C J	1,010 C	228 C	191 C	233 C	128 C	3,400 C
50	50 + 53	6.83 C J	90.9 C	15.2 C	8.76 C	15.5 C	7.97 C EMPC	295 C
51	45 + 51	C45 J	C45	C45	C45	C45	C45	C45
52		225 J	1,950	551	436	558	276	5,400
53	50 + 53	C50 J	C50	C50	C50	C50	C50	C50
54		0.350 UJ	0.901	0.706 U	0.516 EMPC	0.758 U	0.780 U	13.9
55		0.596 UJ	1.51 U	8.47 EMPC	5.47 U	12.0 EMPC	9.48	148 EMPC
56		20.0 J	292	80.9	52.7	74.1	52.1	920
57		1.66 J	5.69	6.38 U	5.39 U	4.45 U	5.10 U	26.7
58		1.03 J	8.25	7.01 U	5.92 U	4.65 U	5.34 U	19.4 U
59	59 + 62 + 75	9.05 C J	124 C	27.5 C	23.9 C	30.4 C	15.3 C	392 C
60		60.3 J	623	135	129	146	73.8	1,320
61	61 + 70 + 74 + 76	566 C J	3,710 C	959 C	821 C	936 C	480 C	5,610 C
62	59 + 62 + 75	C59 J	C59	C59	C59	C59	C59	C59
63		45.9 J	167	29.7	32.3	31.6	16.9	277
64		47.9 J	702	148	121	159	90.7	2,010
65	44 + 47 + 65	C44 J	C44	C44	C44	C44	C44	C44
66		505 J	2,530	593	602	626	324	5,480
67		4.14 J	22.8	8.30 EMPC	6.77	9.76 EMPC	5.78	63.1
68		15.8 J	40.1	10.9 EMPC	11.2	7.68 EMPC	5.18 EMPC	45.4
69	49 + 69	C49 J	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61 J	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40 J	C40	C40	C40	C40	C40	C40
72		6.85 J	35.1	10.8	10.6	11.9	4.66 U	77.7
73		0.361 UJ	0.240 U	0.654 U	3.74 EMPC	0.817 U	0.762 U	0.667 U
74	61 + 70 + 74 + 76	C61 J	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59 J	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61 J	C61	C61	C61	C61	C61	C61
77		56.8 J	110	47.0	35.8	43.5	25.4	195
78		1.32 J	1.42 U	6.83 U	5.77 U	4.69 U	5.38 U	19.5 U
79		6.37 J	53.2	13.7 EMPC	9.52 EMPC	10.3 EMPC	5.71 EMPC	28.0 EMPC
80		1.15 J	2.37 EMPC	5.79 U	4.89 U	3.91 U	4.49 U	16.3 U
81		3.58 J	9.02	6.81 U	5.74 U	5.04 U	5.47 U	20.5 U
82		21.9 J	197	97.5	54.4 EMPC	68.9	42.4	323
83	83 + 99	1,110 C J	8,420 C	1,940 C	1,680 C	1,850 C	777 C	7,520 C
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**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay 19 0608/5406SB 8/15/2006	Forebay SUCKER 07050SL5 5/5/2007	Reference 20 07102/R04SB 10/27/2007	Reference 21 07102/R04SB 10/27/2007	Reference 22 07102/R04SB 10/27/2007	Reference 23 07102/R04SB 10/27/2007	Reference 24 07102/R04SB 10/27/2007
127		6.66 J	20.2	10.2 U	8.75 U	10.1 U	4.41 U	24.5 U
128	128 + 166	399 C J	2,600 C	842 C	724 C	747 C	350 C	2,030 C
129	129 + 138 + 160 + 163	4,700 C J	23,400 C	5,820 C	5,250 C	5,640 C	2,430 C	14,300 C
130		242 J	1,260	332	276	321	154	632
131		7.73 J	90.5	28.2	13.5	21.0	10.6 EMPC	32.6 EMPC
132		158 J	2,720	646	381	529	282	1,170
133		122 J	431	118	108	118	52.4	323
134	134 + 143	43.6 C J	442 C	141 C	79.6 C	120 C	60.7 C	260 C
135	135 + 151 + 154	395 C J	4,980 C	1,210 C	993 C	1,200 C	512 C	3,100 C
136		50.2 J	739	187	134	181	75.4	610
137		314 J	730	174	147	125	68.9	573
138	129 + 138 + 160 + 163	C129 J	C129	C129	C129	C129	C129	C129
139	139 + 140	36.7 C J	324 C	87.5 C	79.3 C	89.5 C	37.4 C	253 C
140	139 + 140	C139 J	C139	C139	C139	C139	C139	C139
141		137 J	1,610	324	255	275	153	1,490
142		0.715 UJ	7.91 U	7.73 U	13.0 U	7.25 U	3.01 U	14.3 U
143	134 + 143	C134 J	C134	C134	C134	C134	C134	C134
144		41.5 J	530	110	81.5	109 EMPC	48.4	243
145		0.414 UJ	2.83	0.600 U	0.555 U	0.667 U	0.491 U	0.771 U
146		1,430 J	4,360	1,020	939	978	429	2,540
147	147 + 149	709 C J	13,000 C	2,400 C	1,450 C	1,920 C	1,060 C	3,250 C
148		3.73 J	41.2	11.6 EMPC	10.0 EMPC	11.2	4.22	36.6
149	147 + 149	C147 J	C147	C147	C147	C147	C147	C147
150		1.56 J	23.1	6.01	3.99 EMPC	7.15 EMPC	3.76 EMPC	11.7 EMPC
151	135 + 151 + 154	C135 J	C135	C135	C135	C135	C135	C135
152		0.483 J	7.13	1.45 EMPC	1.78 EMPC	1.01 EMPC	0.956	14.4
153	153 + 168	7,180 C J	26,400 C	5,530 C	5,250 C	5,040 C	2,510 C	15,500 C
154	135 + 151 + 154	C135 J	C135	C135	C135	C135	C135	C135
155		4.01 J	16.9	6.70	5.11	6.87	3.10 EMPC	16.0
156	156 + 157	791 C J	1,770 C	468 C	402 C	378 C	194 C	1,390 C
157	156 + 157	C156 J	C156	C156	C156	C156	C156	C156
158		190 J	1,760	439	393	435	188	1,220
159		8.56 J	74.2	11.5	8.69 U	9.01	6.33	24.0
160	129 + 138 + 160 + 163	C129 J	C129	C129	C129	C129	C129	C129
161		0.469 UJ	5.19 U	5.38 U	9.04 U	5.18 U	2.15 U	10.2 U
162		33.3 J	72.6	22.7	23.6 EMPC	17.3 EMPC	8.30 EMPC	52.4
163	129 + 138 + 160 + 163	C129 J	C129	C129	C129	C129	C129	C129
164		82.4 J	781	180	139	167	81.4	541
165		5.19 J	17.0	6.32 EMPC	10.2 U	5.85 U	2.75 EMPC	13.6
166	128 + 166	C128 J	C128	C128	C128	C128	C128	C128
167		356 J	565	193	169	157	84.3	536
168	153 + 168	C153 J	C153	C153	C153	C153	C153	C153
169		4.39 UJ	11.1	5.51 U	8.90 U	5.36 U	2.27 U	10.9 U
170		632 J	2,190	438	457	406	260	1,950
171	171 + 173	122 C J	1,120 C	238 C	242 C	249 C	122 C	766 C
172		119 J	478	84.6	94.6	79.8	57.7	376
173	171 + 173	C171 J	C171	C171	C171	C171	C171	C171
174		157 J	1,640	270	195	229	164	642
175		35.7 J	181	31.4	29.3	32.7	17.1 EMPC	71.8
176		22.5 J	417	66.4	42.0	62.2	36.0	91.0
177		506 J	2,800	535	429	557	291	903
178		255 J	1,430	292	303	351	166	786
179		86.7 J	1,600	321	232	342	153	810
180	180 + 193	3,450 C J	7,180 C	1,220 C	1,310 C	1,120 C	806 C	5,270 C
181		14.6 J	33.8	10.6 EMPC	10.3	8.97 EMPC	4.54	32.5
182		7.49 J	31.6	7.69 EMPC	5.65 EMPC	8.57	5.13	24.4 EMPC
183	183 + 185	598 C J	3,140 C	559 C	573 C	567 C	297 C	1,740 C
184		3.23 J	20.7	7.16	7.07	6.44	2.86 EMPC	19.4
185	183 + 185	C183 J	C183	C183	C183	C183	C183	C183
186		0.158 UJ	0.459 EMPC	1.24 U	0.703 U	0.589 U	0.540 U	0.775 U
187		3,590 J	8,530	1,840	1,810	2,040	1,000	3,850
188		6.34 J	20.8	5.67	4.91 EMPC	5.62	2.31 EMPC	11.9
189		41.9 J	78.0	16.5 EMPC	17.4	16.8 EMPC	13.3	67.7
190		252 J	732	179	192	185	103	570
191		45.4 J	120	22.3	26.4	21.2	16.7	81.1
192		0.169 UJ	0.202 U	1.29 U	0.732 U	0.626 U	0.574 U	0.824 U
193	180 + 193	C180 J	C180	C180	C180	C180	C180	C180
194		341 J	695	167	150	126	122	618
195		157 J	422	112	105	95.2	65.2	334
196		197 J	450	882	101	69.2	58.1	284
197	197 + 200	26.5 C J	168 C	34.6 C	28.2 C	28.5 C	20.5 C	71.2 C
198	198 + 199	443 C J	1,100 C	279 C	258 C	222 C	192 C	702 C
199	198 + 199	C198 J	C198	C198	C198	C198	C198	C198
200	197 + 200	C197 J	C197	C197	C197	C197	C197	C197
201		70.1 J	274	51.2	46.2	46.9	27.9	109
202		134 J	830	173	166	175	100	428
203		273 J	1,040	237	237	210	169 EMPC	596
204		0.449 J	1.68	1.64 U	0.578 U	0.640 U	0.872 EMPC	0.676 U
205		16.9 J	58.7	15.4	14.6 EMPC	14.5 EMPC	10.6 EMPC	37.9
206		111 J	368	103	95.6	72.8	66.6	240
207		27.0 J	62.4	19.6	16.8	13.3 EMPC	11.7 EMPC	38.8
208		53.0 J	165	43.9	36.1	31.5 EMPC	27.7	87.1
209		51.7 J	144	52.4	44.0	36.9	33.9	90.2
<b>Total PCBs as Congeners in ug</b>								

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference 25 07/02/R0SB 10/27/2007	Reference 26 07/11/R0SB 11/15/2007	Reference 27 08/05/17/R10SB 5/17/2008	Reference 28 08/05/17/R11SB 5/17/2008	Reference 29 08/05/17/R12SB 5/17/2008	Reference 30 08/05/17/R13SB 5/17/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		15.5 EMPC	1.63 U	1.05	0.452 EMPC	0.430 EMPC	0.626
2		35.2 EMPC	2.15 EMPC	1.66	1.11	0.666	1.34
3		23.2 EMPC	3.29 EMPC	0.748	0.488	0.340 EMPC	0.617
4		9.49 EMPC	4.96 U	9.61	3.81	2.37	3.55
5		5.69 U	3.20 U	0.462	0.234 U	0.255 U	0.208
6		5.10 U	2.87 U	5.37	1.99	1.02	2.12
7		5.23 U	2.95 U	1.04	0.466	0.236 U	0.561
8		22.2 EMPC	6.54 EMPC	22.7	10.4	4.91	9.98
9		5.07 U	2.85 U	1.84	0.652	0.294 EMPC	0.718
10		4.76 U	2.68 U	0.377 EMPC	0.217 U	0.238 U	0.141 U
11		438	339	342	377	173	320
12	12 + 13	5.54 C U	3.12 C U	0.177 C U	0.228 C U	0.250 C U	0.153 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		5.28 U	2.97 U	0.170 U	0.219 U	0.239 U	0.151 U
15		6.46 U	3.54 U	4.92	2.91	1.41	3.45
16		40.5 EMPC	10.8 EMPC	31.0	13.3	7.42	22.5
17		80.3	18.4	86.0	19.3	10.8	52.3
18	18 + 30	158 C	39.1 C	131 C	43.8 C	22.0 C	96.0 C
19		8.89 EMPC	2.44 EMPC	6.14	3.23	1.84	3.46
20	20 + 28	740 C	219 C	1,020 C	215 C	150 C	666 C
21	21 + 33	155 C	33.5 C	152 C	42.8 C	30.2 C	125 C
22		151	35.1	212	51.0	30.9	115
23		1.15 U	0.838 U	0.775	0.197	0.172 EMPC	0.680
24		3.00 EMPC	0.776 U	2.68	0.691	0.405 EMPC	1.45
25		30.4	6.87	37.9	7.91	5.36	18.3
26	26 + 29	92.4 C	23.4 C EMPC	110 C	23.6 C	16.0 C	80.0 C
27		11.0	2.62	6.74	2.85	1.85	6.12
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		409	108	596	125	78.9	338
32		27.6	5.30	34.1	6.56	4.23	24.6
33	21 + 33	C21	C21	C21	C21	C21	C21
34		2.02 EMPC	0.823 U	1.80	0.507	0.497	1.44
35		1.26 U	0.911 U	0.163 U	0.127 EMPC	0.0726 U	0.118 U
36		1.11 U	0.804 U	0.142 U	0.0498 U	0.0635 U	0.101 U
37		49.4	15.4	28.1	20.0	7.00	26.8
38		1.20 U	0.874 U	1.17	0.243 EMPC	0.247 EMPC	0.476
39		5.27	1.38 EMPC	7.43	1.95	1.45	6.04
40	40 + 41 + 71	240 C	64.4 C	220 C	66.9 C	62.2 C	225 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		180	58.6	239	55.0	46.1	187
43		32.1 EMPC	12.6 EMPC	38.4	8.38	8.71	31.2
44	44 + 47 + 65	771 C	377 C	1,090 C	271 C	260 C	824 C
45	45 + 51	59.4 C	17.9 C	58.4 C	15.8 C	13.2 C	49.1 C
46		12.9 EMPC	3.47	9.01	3.98	2.53	10.8
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		178	0.662 U	178	42.4	35.0	166
49	49 + 69	621 C	301 C	866 C	203 C	192 C	657 C
50	50 + 53	45.4 C	12.8 C	24.2 C	12.6 C	10.0 C	38.3 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		978	575	1,280	402	384	1,140
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.814 U	0.492 U	0.370 EMPC	0.280	0.194	0.643
55		20.2	6.11 EMPC	0.249 U	0.406 U	0.485 U	0.228 U
56		87.1	64.2	109	80.9	53.2	135
57		8.61 U	2.29 U	8.57	2.09	2.15	5.13
58		9.01 U	2.39 U	3.69	1.87	2.09	2.98
59	59 + 62 + 75	83.0 C	34.6 C	107 C	25.4 C	23.3 C	81.0 C
60		145	129	325	123	116	209
61	61 + 70 + 74 + 76	1,220 C	785 C	2,130 C	848 C	756 C	1,690 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		49.7	36.3	101	29.5	34.0	63.3
64		400	175	554	147	121	427
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		700	572	1,590	534	601	1,040
67		19.5	9.40	29.1	9.61	8.65	18.4
68		11.6 EMPC	7.59	16.3	7.78	9.79	13.8
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		13.5 EMPC	11.0	22.7	8.21	8.94	18.2
73		0.796 U	7.72 EMPC	0.0486 U	0.0495 U	0.0484 U	0.0492 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		38.1	30.1	75.4	36.2	43.6	70.1
78		9.08 U	2.41 U	0.238 U	0.389 U	0.465 U	0.229 U
79		16.2	7.61	17.1	13.4	11.8	27.0
80		7.57 U	2.01 U	2.30	0.818	0.948	1.32
81		9.44 U	2.53 U	5.52	2.56	2.63	3.26
82		112	59.7	55.2	57.0	44.9	131
83	83 + 99	1,660 C	1,760 C	5,090 C	1,410 C	1,530 C	2,670 C
84		147	126	122	120	93.5	279
85	85 + 116 + 117	502 C	513 C	1,420 C	393 C	423 C	752 C
86	86 + 87 + 97 + 108 + 119 + 125	1,100 C	829 C	1,310 C G	758 C G	674 C G	1,560 C G
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	183 C	133 C	174 C	117 C	113 C	288 C
89		4.43 EMPC	1.71 U	3.79	3.01	2.84	6.39
90	90 + 101 + 113	2,160 C	1,950 C	3,510 C	1,730 C	1,670 C	3,490 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		401	404	812	353	342	665
93	93 + 95 + 98 + 100 + 102	835 C	653 C	979 C	563 C	552 C	1,320 C
94		4.04 EMPC	1.99 EMPC	2.17	1.84	1.87	4.30
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C		

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference 25 071027R0SB 10/27/2007	Reference 26 071115R0SB 11/15/2007	Reference 27 080517R1SB 5/17/2008	Reference 28 080517R1SB 5/17/2008	Reference 29 080517R1SB 5/17/2008	Reference 30 080517R1SB 5/17/2008
127		12.5 U	8.83 U	0.900 U	0.600 U	0.561 U	0.326 U
128	128 + 166	713 C	704 C	2,400 C	545 C	551 C	1,060 C
129	129 + 138 + 160 + 163	4,680 C	5,240 C	15,500 C	4,390 C	5,020 C	7,510 C
130		282	239	405	265	246	459
131		29.4	12.2 EMPC	13.7	17.9	11.3	36.5
132		550	381	378	406	324	922
133		97.8	111	280	87.2	105	163
134	134 + 143	137 C	80.5 C	84.4 C	80.0 C	65.9 C	176 C
135	135 + 151 + 154	913 C	904 C	1,690 C	834 C	814 C	1,590 C
136		147	131	178	119	116	274
137		178	166	720	104	151	245
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	73.6 C	75.5 C	258 C	59.3 C	62.5 C	123 C
140	139 + 140		C139	C139	C139	C139	C139
141		337	269	660	191	225	432
142		6.52 U	11.4 U	0.798 U	0.703 U	0.731 U	0.625 U
143	134 + 143		C134	C134	C134	C134	C134
144		99.9	70.9	98.1	73.8	65.3	153
145		0.733 U	0.571 U	0.0486 U	0.296 EMPC	0.235 EMPC	0.737
146		767	901	2,380	811	1,080	1,420
147	147 + 149	1,980 C	1,400 C	1,340 C	1,470 C	1,250 C	3,160 C
148		7.79	7.82 EMPC	12.3	7.27	8.56	13.9
149	147 + 149		C147	C147	C147	C147	C147
150		5.88 EMPC	3.81	2.54	3.48	4.18	7.60
151	135 + 151 + 154		C135	C135	C135	C135	C135
152		0.675 U	1.14	3.06	1.08	1.18	2.32
153	153 + 168	4,230 C	5,710 C	18,200 C	4,080 C	5,650 C	7,260 C
154	135 + 151 + 154		C135	C135	C135	C135	C135
155		3.02	5.00	15.2	4.36	4.97	7.66
156	156 + 157	490 C	448 C	1,890 C	290 C	430 C	638 C
157	156 + 157		C156	C156	C156	C156	C156
158		396	391	1,420	328	302	616
159		10.4	8.50	14.1	10.9	10.6	19.0
160	129 + 138 + 160 + 163		C129	C129	C129	C129	C129
161		4.66 U	8.16 U	0.574 U	0.506 U	0.525 U	0.440 U
162		19.2 EMPC	18.3	77.3	14.6	21.0	28.7
163	129 + 138 + 160 + 163		C129	C129	C129	C129	C129
164		173	122	228	115	130	232
165		5.26 U	9.22 U	11.3	3.51	5.19	6.60
166	128 + 166		C128	C128	C128	C128	C128
167		181	168	571	117	211	242
168	153 + 168		C153	C153	C153	C153	C153
169		4.89 U	8.57 U	8.12 U	1.30 U	1.86 U	2.79 U
170		398	498	2,180	370	459	693
171	171 + 173	208 C	241 C	966 C	214 C	201 C	380 C
172		83.6	93.3	305	75.7	86.3	138
173	171 + 173		C171	C171	C171	C171	C171
174		254	185	231	198	194	375
175		28.3 EMPC	26.3	58.6	25.8	27.6	46.7
176		58.1	44.3	40.1	48.5	34.3	97.9
177		441	382	633	496	437	829
178		237	288	848	275	283	470
179		230	229	411	250	215	478
180	180 + 193	1,040 C	1,500 C	6,100 C	1,060 C	1,550 C	1,900 C
181		10.9	8.36 EMPC	45.2	6.76	9.23	12.9
182		4.26	6.39 EMPC	20.5	4.59	6.47	8.23
183	183 + 185	458 C	549 C	2,010 C	483 C	547 C	857 C
184		3.98 EMPC	5.95 EMPC	21.4	4.25	5.80	8.47
185	183 + 185		C183	C183	C183	C183	C183
186		0.854 U	0.553 U	0.0631 U	0.0495 U	0.0484 U	0.0630 U
187		1,450	1,690	3,880	1,680	2,180	2,730
188		3.35 EMPC	4.31 EMPC	9.74	4.19	5.68	7.24
189		19.5 EMPC	23.2 EMPC	102	14.7	21.7	31.3
190		144	201	912	169	198	292
191		24.0	25.9	121	20.1	27.2	36.0
192		0.908 U	0.588 U	0.0715 U	0.0495 U	0.0484 U	0.0720 U
193	180 + 193		C180	C180	C180	C180	C180
194		138	208	661	133	153	244
195		77.0	122	510	97.0	97.8	177
196		85.8 EMPC	106	424	78.2	101	148
197	197 + 200	27.0 C	32.3 C	85.6 C	27.0 C	25.0 C	52.0 C
198	198 + 199	210 C	261 C	582 C	228 C	241 C	420 C
199	198 + 199		C198	C198	C198	C198	C198
200	197 + 200		C197	C197	C197	C197	C197
201		40.2 EMPC	41.6	127	42.6	53.9	87.4
202		125	205	485	143	121	265
203		191	284	1,170	221	229	367
204		0.683 U	0.578 U	1.66	0.365	0.472	0.738
205		11.7	16.0	58.1	12.5	12.2	23.1
206		76.4	136	357	86.2	77.0	137
207		12.8	24.0	75.1	14.6	17.6	25.7
208		29.7	44.4	90.6	37.3	32.8	60.2
209		41.1 EMPC	72.3	153	45.7	41.5	67.6
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full RDL)	45.0 J	42.0 J	117 J	35.8 J	39.8 J	69.1 J	
Total PCBs as Congeners (KM-based)	44.4 J	41.7 J	117 J	35.8 J	39.8 J	69.0 J	
Total PCBs as Congeners (KM-based, capped)	44.4 J	41.7 J	117 J	35.8 J	39.8 J	69.0 J	

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be "coeluting" and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference 31 080517R14SB 5/21/2008	Reference 32 080521R15SB 5/21/2008	Reference 33 080521R16SB 5/21/2008	Reference 34 080521R17SB 5/21/2008	Reference 35 080521R18SB 5/21/2008	Reference 36 080521R19SB 5/21/2008	Reference 37 080521R20SB 5/21/2008	Reference 38 080521R21SB 5/21/2008
Individual Congeners in pg/g (ng/kg), wet weight									
1		0.476 EMPC	0.403	0.566 EMPC	0.444	0.471	0.655 EMPC	0.661 EMPC	0.345
2		0.904	0.694	0.522	0.890	0.582 EMPC	0.715	0.890	0.397
3		0.342 EMPC	0.398 EMPC	0.391 EMPC	0.513	0.430 EMPC	0.580	0.534	0.489
4		3.44	3.34	2.23	3.63	3.48	4.84	3.90	2.68
5		0.184 U	0.153 EMPC	0.261 U	0.191	0.366 U	0.213 U	0.511 U	0.340 U
6		1.76	1.73	1.68	1.75	1.88	3.08	1.64	1.56
7		0.436	0.421	0.339	0.406	0.335	0.633	0.448 U	0.350
8		7.37	8.61	6.55	8.90	7.56	11.5	8.04	8.52
9		0.577	0.514	0.528	0.611	0.476	0.689	0.440 U	0.451
10		0.163 U	0.125 U	0.231 U	0.141	0.307 U	0.179 U	0.427 U	0.284 U
11		223	206	75.5	475	117	416	298	117
12	12 + 13	0.178 C U	3.04 C EMPC	0.251 C U	0.156 C U	0.358 C U	0.209 C U	0.499 C U	0.332 C U
13	12 + 13	C12							
14		0.176 U	0.134 U	0.248 U	0.148 U	0.339 U	0.198 U	0.473 U	0.315 U
15		2.07	3.50	1.75	3.19	1.90	4.86	3.21	2.39
16		8.80	9.25	7.26	11.4	9.53	12.8	12.5	10.0
17		12.2	12.9	11.7	15.7	13.8	18.7	16.3	14.2
18	18 + 30	28.0 C	26.0 C	24.6 C	34.6 C	30.1 C	40.3 C	35.9 C	29.1 C
19		2.23	2.62	1.87	2.88	2.37	3.26	2.76	2.44
20	20 + 28	128 C	173 C	186 C	175 C	169 C	193 C	164 C	139 C
21	21 + 33	22.7 C	29.2 C	34.9 C	36.8 C	34.4 C	43.2 C	35.0 C	30.2 C
22		27.2	39.3	36.4	42.8	33.8	46.5	38.9	32.7
23		0.151	0.124 EMPC	0.149	0.148	0.214	0.172 U	0.180 U	0.145 U
24		0.427 EMPC	0.427	0.399	0.594 EMPC	0.409 EMPC	0.688	0.138 U	0.662 EMPC
25		3.44	7.01	23.0	9.40	7.34	9.70	6.17	6.02
26	26 + 29	12.6 C	18.7 C	47.1 C	22.3 C	19.3 C	23.3 C	18.4 C	16.2 C
27		2.00	1.87	1.64	2.76	2.43	3.03	3.11	2.31
28	20 + 28	C20							
29	26 + 29	C26							
30	18 + 30	C18							
31		59.7	94.4	99.6	101	82.5	110	84.5	81.7
32		3.78	4.69	10.3	4.44	4.63	6.09	3.91	5.54
33	21 + 33	C21							
34		0.326	0.501 EMPC	1.27	0.566	0.729	0.627	0.555 EMPC	0.353 EMPC
35		0.0499 U	0.0480 U	0.0832 U	0.107 U	0.203 U	0.203 U	0.213 U	0.172 U
36		0.0484 U	0.0480 U	0.0714 U	0.0919 U	0.176 U	0.175 U	0.184 U	0.148 U
37		11.5	17.6	16.5	18.8	10.0	21.0	13.4	14.0
38		0.101 EMPC	0.154 EMPC	0.356 EMPC	0.261 EMPC	0.180 U	0.251 EMPC	0.188 U	0.152 U
39		0.998	1.49	2.02	1.68	1.51	2.03	1.75	0.150 U
40	40 + 41 + 71	30.0 C	54.2 C	126 C	68.7 C	60.0 C	90.6 C	61.2 C	65.1 C
41	40 + 41 + 71	C40							
42		24.9	46.0	97.4	57.1	53.5	74.7	58.0	47.3
43		5.23	5.30	9.49	8.90	10.9	12.8	10.7	7.92
44	44 + 47 + 65	182 C	270 C	781 C	326 C	350 C	432 C	327 C	300 C
45	45 + 51	8.20 C	12.8 C	22.8 C	15.4 C	9.12 C EMPC	21.3 C	13.0 C	15.2 C
46		1.93	3.65	5.61	4.01	2.93	4.92	3.37	3.51
47	44 + 47 + 65	C44							
48		24.1	30.1	39.8	38.1	39.8	53.4	44.5	32.9
49	49 + 69	113 C	218 C	697 C	259 C	278 C	342 C	219 C	248 C
50	50 + 53	6.37 C	11.5 C	29.8 C	14.7 C	12.3 C	19.8 C	12.6 C	13.2 C
51	45 + 51	C45							
52		304	438	1,090	495	544	658	520	487
53	50 + 53	C50							
54		0.177	0.428	0.980	0.318	0.298	0.425 EMPC	0.207	0.376
55		0.136 U	0.208 U	0.333 U	0.204 U	0.393 U	0.393 U	0.389 U	0.326 U
56		35.0	87.3	206	112	73.3	128	74.8	88.8
57		1.61	2.50	7.77	2.58	2.60	3.15	2.12	2.88
58		0.930	2.04	5.14	3.12	2.38	3.12	2.27	2.53
59	59 + 62 + 75	14.5 C	23.4 C	35.3 C	28.2 C	31.7 C	38.4 C	30.0 C	26.0 C
60		110	145	332	143	193	212	152	142
61	61 + 70 + 74 + 76	664 C	974 C	4,660 C	992 C	1,120 C	1,390 C	905 C	1,010 C
62	59 + 62 + 75	C59							
63		39.1	35.6	184	32.7	47.2	48.6	35.8	36.1
64		83.5	136	190	151	158	204	156	146
65	44 + 47 + 65	C44							
66		670	679	3,880	642	942	907	686	638
67		5.21	9.34	25.7	10.6	9.50	15.6	8.27	10.7
68		9.84	9.61	69.5	10.9	10.8	13.4	8.27	10.5
69	49 + 69	C49							
70	61 + 70 + 74 + 76	C61							
71	40 + 41 + 71	C40							
72		7.29	12.8	55.4	13.8	13.9	17.5	10.4	13.2
73		0.0484 U	0.0480 U	0.0491 U	0.0526 U	0.0707 U	0.0760 U	0.111 U	0.0875 U
74	61 + 70 + 74 + 76	C61							
75	59 + 62 + 75	C59							
76	61 + 70 + 74 + 76	C61							
77		54.8	49.3	172	53.7	59.7	70.1	52.8	49.7
78		0.137 U	0.209 U	0.334 U	0.208 U	0.401 U	0.401 U	0.396 U	0.333 U
79		8.15	15.2	247	22.0	19.3	29.7	21.7	21.5
80		1.00	0.862	0.286 U	0.177 U	0.341 U	0.341 U	0.337 U	1.19
81		2.63	2.35	15.9	3.40	4.06	3.76	2.02	3.11
82		16.7	68.4	751	86.3	79.6	125	58.9	93.5
83	83 + 99	1,730 C	1,800 C	23,200 C	1,780 C	2,600 C	3,010 C	1,980 C	2,330 C
84		47.6	144	511	149	126	240	125	177
85	85 + 116 + 117	465 C	533 C	5,890 C	554 C	829 C	902 C	632 C	654 C
86	86 + 87 + 97 + 108 + 119 + 125	441 C G	939 C G	10,500 C	1,100 C G	1,170 C	1,730 C G	1,050 C	1,370 C
87	86 + 87 + 97 + 108 + 119 + 125	C86							
88	88 + 91	51.7 C	138 C	838 C	155 C	137 C	253 C	131 C	196 C
89		1.16	3.30	5.90	3.32	3.75	5.15	2.88	4.12
90	90 + 101 + 113	1,180 C	2,090 C	17,900 C	2,320 C	2,470 C	3,810 C	2,280 C	2,800 C
91	88 + 91	C88							
92		278	429	2,210	448	523	751	471	586
93	93 + 95 + 98 + 100 + 102	354 C	672 C	3,370 C	702 C	733 C	1,150 C	694 C	848 C
94		0.492	1.63	3.40	2.08	1.47	3.51	1.31	2.90
95	93 + 95 + 98 + 100 + 102	C93							
96		1.20	2.02	4.83	2.30	2.37	3.37	2.2	

**Table H-7**  
**Smallmouth Bass and Sucker PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference 31 080521R14SB 5/17/2008	Reference 32 080521R15SB 5/21/2008	Reference 33 080521R16SB 5/21/2008	Reference 34 080521R17SB 5/21/2008	Reference 35 080521R18SB 5/21/2008	Reference 36 080521R19SB 5/21/2008	Reference 37 080521R20SB 5/21/2008	Reference 38 080521R21SB 5/21/2008
127	128 + 166	0.469 U	0.339 U	2.10 U	0.575 U	1.27 U	0.735 U	0.843 U	0.587 U
128	129 + 138 + 160 + 163	702 C	720 C	7,850 C	727 C	1,120 C	1,250 C	849 C	912 C
129		6,520 C	5,160 C	66,800 C	5,450 C	7,870 C	9,990 C	6,720 C	6,760 C
130		225	298	3,900	292	296	570	303	407
131		4.60	20.5	261	19.5	15.0	38.7	14.7	27.5
132		167	532	3,600	476	394	867	411	640
133		134	105	804	92.1	145	194	128	131
134	134 + 143	36.7 C	94.8 C	718 C	87.3 C	80.1 C	176 C	85.1 C	117 C
135	135 + 151 + 154	648 C	936 C	2,980 C	914 C	1,070 C	1,870 C	1,110 C	1,270 C
136		74.2	140	558	133	137	254	151	197
137		275	164	8,560	171	299	271	203	218
138	129 + 138 + 160 + 163	C129							
139	139 + 140	70.5 C	73.9 C	771 C	68.1 C	108 C	136 C	87.0 C	96.9 C
140	139 + 140	C139							
141		182	244	3,540	288	420	484	313	351
142		0.628 U	0.484 U	2.21 U	0.792 U	0.955 U	1.19 U	1.32 U	0.984 U
143	134 + 143	C134							
144		40.2	83.9	755	84.1	83.6	174	85.6	123
145		0.0484 U	0.283 EMPC	1.08	0.379	0.206	0.571 EMPC	0.405 EMPC	0.443 EMPC
146		1,550	924	11,400	899	1,320	1,790	1,210	1,230
147	147 + 149	640 C	1,720 C	13,000 C	1,610 C	1,310 C	3,260 C	1,440 C	2,140 C
148		4.53	7.54	12.8	7.57	8.46	17.6	8.00	11.2
149	147 + 149	C147							
150		1.22	3.59	11.4	3.71	2.87	9.05	3.21	5.99
151	135 + 151 + 154	C135							
152		0.993	1.28	4.30	1.24	1.50	2.29	1.57	1.75 EMPC
153	153 + 168	9,040 C	5,090 C	69,500 C	4,850 C	8,170 C	9,180 C	7,410 C	5,650 C
154	135 + 151 + 154	C135							
155		6.33	4.80	3.55	4.60	7.90	10.2	7.21	6.63
156	156 + 157	882 C	447 C	20,000 C	420 C	786 C	714 C	557 C	544 C
157	156 + 157	C156							
158		402	406	4,520	412	606	798	490	557
159		7.57	11.4	71.6	14.3	13.3	25.2	14.1 EMPC	15.4
160	129 + 138 + 160 + 163	C129							
161		0.442 U	0.341 U	1.55 U	0.555 U	0.670 U	0.836 U	0.928 U	0.690 U
162		35.3	19.0	442	20.0	36.0	38.6	27.9	23.5
163	129 + 138 + 160 + 163	C129							
164		97.1	145	2,010	143	169	228	167	185
165		5.19	4.18	12.9	3.83	6.28	8.53	4.82	4.99 EMPC
166	128 + 166	C128							
167		380	180	6,540	175	286	242	276	198
168	153 + 168	C153							
169		3.07 U	1.54 U	6,62 U	2.16 U	4.82 U	5.96 U	3.56 U	2.10 U
170		831	480	7,510	491	866	887	636	522
171	171 + 173	305 C	246 C	1,020 C	245 C	389 C	548 C	345 C	311 C
172		114	86.5	869	98.0	159	193	115	101
173	171 + 173	C171							
174		121	212	1,480	242	220	447	235	270
175		28.3	27.7	142	29.3	36.0	71.5	37.1	39.4
176		19.0	54.9	134	50.4	37.4	124	45.7	76.9
177		417	512	2,030	503	462	1,220	550	675
178		338	307	584	291	422	683	419	384
179		154	264	271	244	243	549	315	348
180	180 + 193	3,000 C	1,300 C	15,600 C	1,380 C	2,670 C	2,870 C	2,110 C	1,460 C
181		15.7	9.11	258	10.0	16.8	18.8	14.4	12.0
182		6.95	5.64	27.5	7.89	13.4	15.8	10.7	9.23
183	183 + 185	759 C	542 C	2,520 C	583 C	904 C	1,290 C	843 C	700 C
184		7.07	5.00	4.75	4.51	8.34	10.9	8.55	6.70
185	183 + 185	C183							
186		0.0484 U	0.0597 U	0.0594 U	0.0919 U	0.126 U	0.158 U	0.187 U	0.175 U
187		2,640	1,750	6,820	1,800	2,510	4,090	2,650	2,330
188		6.31	4.57	10.8	4.36	6.67	10.1	6.91	6.04
189		44.4	19.7	532	20.9	38.6	37.5	29.5	20.5
190		411	209	1,520	217	381	431	345	243
191		48.3	25.3	308	28.4	52.0	59.5	42.3	31.9
192		0.0500 U	0.0682 U	0.0679 U	0.119 U	0.163 U	0.205 U	0.242 U	0.226 U
193	180 + 193	C180							
194		344	163	1,150	157	285	289	204	134
195		219	105	385	91.8	172	195	146	97.2
196		189	93.1	478	97.1	187	193	147	96.2
197	197 + 200	31.1 C	27.0 C	57.7 C	28.7 C	39.2 C	64.3 C	35.1 C	35.1 C
198	198 + 199	348 C	263 C	1,020 C	277 C	465 C	532 C	315 C	248 C
199	198 + 199	C198							
200	197 + 200	C197							
201		71.0	46.1	113	43.6	66.9	110	67.6	55.1
202		186	161</td						

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P04 08022604SD 2/28/2008	Forebay P07 08021507SD 2/15/2008	Forebay P08 08021508SD 2/15/2008	Forebay P09 08021409SD 2/14/2008	Forebay P10 08021410SD 2/14/2008	Forebay P11 08021411SD 2/14/2008
Individual Congeners in pg/g (ng/kg), dry weight							
1		1.16	0.181	0.168	0.296 EMPC	0.324 EMPC	0.257
2		2.78	1.28	1.69	6.62	4.86	4.76
3		0.500 EMPC	0.206	0.252 EMPC	0.467	0.416 EMPC	0.351
4		7.11	1.46	0.628	0.985	0.566	2.24
5		0.0659 U	0.0521 U	0.0719 U	0.0625 U	0.0504 U	0.0438 U
6		0.897	0.254	0.219 EMPC	0.352	0.292	0.736
7		0.597	0.163 EMPC	0.124	0.222 EMPC	0.172	0.131 EMPC
8		4.61	1.14	0.958	1.67	1.52	3.83
9		0.758	0.149 EMPC	0.0830 EMPC	0.161	0.119	0.197
10		0.323	0.0670 EMPC	0.0653 U	0.0569 U	0.0477 U	0.0670
11		79.5	42.6	52.6	68.8	84.4	86.8
12	12 + 13	1.52 C	0.503 C EMPC	0.551 C	0.974 C	0.803 C EMPC	1.15 C
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0612 U	0.0484 U	0.0668 U	0.0581 U	0.0477 U	0.0660
15		6.40	1.67	2.01	2.76	3.26	4.26
16		1.71	0.667	0.457	0.942	0.813	5.69
17		12.1	2.28	1.14	2.44	2.67	5.25
18	18 + 30	12.0 C	2.74 C	1.55 C	3.07 C	2.33 C	11.2 C
19		4.73	0.986	0.362	0.878 EMPC	0.394	1.56
20	20 + 28	52.9 C	5.68 C	5.61 C	10.1 C	13.2 C	20.7 C
21	21 + 33	12.8 C	2.15 C	1.59 C	3.91 C	2.78 C	10.1 C
22		7.70	1.29	1.45	2.42	2.37	7.51
23		0.0491 U	0.0473 U	0.0505 U	0.0495 U	0.0477 U	0.0368 U
24		0.135 EMPC	0.0473 U	0.0478 U	0.0590 EMPC	0.0477 U	0.176
25		20.9	0.608	0.449 EMPC	0.825	0.937	1.36
26	26 + 29	32.7 C	0.970 C	0.717 C	1.39 C	1.39 C	3.07 C
27		4.33	0.726	0.374	0.747	0.524	0.864
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		36.7	4.32	3.62	6.58	5.89	15.5
32		13.5	1.06	0.448	1.00	0.918	3.13
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.463	0.0473 U	0.0485 U	0.0790 EMPC	0.0650 EMPC	0.0810
35		0.488	0.173 EMPC	0.305	0.346	0.440	0.617
36		0.132	0.0473 U	0.128 EMPC	0.106	0.143	0.154
37		8.11	1.63	2.05	3.00	3.20	6.47
38		0.106 EMPC	0.0473 U	0.0550 EMPC	0.129 EMPC	0.0960 EMPC	0.131
39		0.451 EMPC	0.0580 EMPC	0.0478 U	0.0780 EMPC	0.0560 EMPC	0.104
40	40 + 41 + 71	97.6 C	7.84 C	3.21 C	7.96 C	4.57 C	7.50 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		39.8	4.32	1.92	4.65	2.83	4.07
43		4.96 EMPC	0.653	0.296	0.591 EMPC	0.459	0.559
44	44 + 47 + 65	403 C	37.0 C	15.7 C	34.8 C	19.0 C	17.1 C
45	45 + 51	21.6 C	1.45 C	0.655 C	0.927 C	0.631 C	2.37 C
46		7.95	0.607	0.222	0.607	0.343	0.817
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		14.7	1.79	1.01	2.24	1.46	3.00
49	49 + 69	299 C	23.0 C	10.2 C	24.2 C	12.1 C	9.54 C
50	50 + 53	49.8 C	3.87 C	1.49 C	3.50 C	2.18 C	1.89 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		964	87.0	34.1	70.8	32.2	24.7
53	50 + 53	C50	C50	C50	C50	C50	C50
54		1.28	0.109 EMPC	0.0478 U	0.136	0.0540 EMPC	0.0420 EMPC
55		4.34	0.597	0.203	0.676 EMPC	0.307	0.134 U
56		117	9.68	5.45	10.4	6.92	7.60
57		1.19	0.0895 U	0.0814 U	0.144 U	0.146 U	0.134 U
58		1.47	0.127 EMPC	0.130 EMPC	0.178 EMPC	0.146 U	0.134 U
59	59 + 62 + 75	9.53 C	0.900 C	0.549 C	1.43 C	1.02 C	1.47 C
60		49.7	3.95	2.89	4.71	3.40	4.48
61	61 + 70 + 74 + 76	1,250 C	85.8 C	45.7 C	85.7 C	45.6 C	33.0 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		12.7	0.963	0.711 EMPC	1.46	0.822	0.708
64		137	13.6	6.70	13.2	6.89	7.10
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		356	27.3	16.8	33.3	20.5	17.1
67		4.03	0.185	0.164 EMPC	0.292 EMPC	0.265	0.483
68		2.56	0.131 EMPC	0.0830 EMPC	0.451 EMPC	0.245 EMPC	0.130 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		3.55	0.236	0.148 EMPC	0.582	0.277	0.175 EMPC
73		0.0491 U	0.0473 U	0.0478 U	0.0495 U	0.0477 U	0.0368 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		7.09	1.10	1.21	1.99	1.98	2.31
78		0.406 U	0.0865 U	0.0786 U	0.139 U	0.141 U	0.130 U
79		21.7	1.16	0.648	1.44 EMPC	0.660	0.389 EMPC
80		0.373 U	0.0795 U	0.0723 U	0.128 U	0.130 U	0.119 U
81		3.40 EMPC	0.192 EMPC	0.103 EMPC	0.140 U	0.147 EMPC	0.129 U
82		232	14.0	7.06	14.7	6.50	4.67
83	83 + 99	1,360 C	73.4 C	42.6 C	86.0 C	40.9 C	26.0 C
84		493	36.4	15.1	34.0	15.0	10.4
85	85 + 116 + 117	426 C	25.2 C	15.2 C	27.6 C	14.0 C	9.40 C
86	86 + 87 + 97 + 108 + 119 + 125	1,580 C	93.4 C	48.4 C	94.5 C	43.7 C	31.9 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	292 C	20.0 C	9.18 C	19.3 C	9.36 C	5.51 C
89		13.0	0.851	0.414	0.905	0.389	0.301
90	90 + 101 + 113	2,180 C	125 C	66.3 C	136 C	63.0 C	47.1 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		368	22.1	11.4			

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
 (Page 2 of 14)

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P04 08022604SD 2/28/2008	Forebay P07 08021507SD 2/15/2008	Forebay P08 08021508SD 2/15/2008	Forebay P09 08021409SD 2/14/2008	Forebay P10 08021410SD 2/14/2008	Forebay P11 08021411SD 2/14/2008
128	128 + 166	445:C	14.7:C	13.0:C	26.5:C	14.6:C	12.6:C
129	129 + 138 + 160 + 163	2,340:C	85.9:C	74.2:C	136:C	82.5:C	74.2:C
130		142	5.14	4.29	9.23	5.29	4.88
131		32.4	1.11	0.742	1.68	0.881	0.775
132		725	25.2	18.0	41.8	21.2	18.9
133		19.8	0.866	0.791	1.68	1.07	1.06
134	134 + 143	105:C	3.84:C	2.73:C	6.51:C	3.33:C	2.98:C
135	135 + 151 + 154	376:C	18.3:C	13.9:C	31.4:C	19.9:C	20.0:C
136		152	7.76	4.71	11.5	6.15	5.68
137		178	5.16	4.31	7.92	3.75	3.11
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	48.2:C	1.68:C	1.26:C	2.77:C	1.42:C	1.23:C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		273	7.76	6.16	15.0	7.60	7.88
142		1.16:U	0.120:U	0.114:U	0.162:U	0.133:U	0.106:U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		54.6	2.38	1.89	3.90	2.10	2.20
145		0.838	0.0473:U	0.0478:U	0.0740:EMPC	0.0477:U	0.0368:U
146		269	12.4	10.9	20.0	12.5	11.9
147	147 + 149	1,190:C	49.0:C	37.0:C	81.3:C	46.6:C	44.6:C
148		0.844	0.0660:EMPC	0.0478:U	0.184:EMPC	0.139	0.104
149	147 + 149	C147	C147	C147	C147	C147	C147
150		1.54	0.0690:EMPC	0.0760:EMPC	0.181	0.106	0.106
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		1.80	0.0780	0.0490:EMPC	0.104:EMPC	0.0600	0.0630
153	153 + 168	1,580:C	72.6:C	62.0:C	101:C	68.0:C	64.4:C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.0491:U	0.0473:U	0.0478:U	0.0495:U	0.0477:U	0.0490:EMPC
156	156 + 157	380:C	12.0:C	10.4:C	19.5:C	10.6:C	8.74:C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		245	7.81	6.61	13.0	6.91	6.31
159		6.36	0.232:EMPC	0.266	0.609	0.443	0.485
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.822:U	0.0849:U	0.0804:U	0.115:U	0.0940:U	0.0746:U
162		8.11	0.182:EMPC	0.211	0.410:EMPC	0.233	0.226
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		118	4.42	3.36	7.97	4.40	4.03
165		0.934:U	0.0964:U	0.0913:U	0.130:U	0.107:U	0.0848:U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		113	4.52	4.30	6.33	3.91	3.49
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.879:U	0.0923:U	0.0881:U	0.126:U	0.123:U	0.111:U
170		190	5.53	6.14	14.4	10.6	10.4
171	171 + 173	59.2:C	1.88:C	2.28:C	5.17:C	4.06:C	4.13:C
172		30.1	0.852	1.03	2.77	2.17	2.27
173	171 + 173	C171	C171	C171	C171	C171	C171
174		127	4.02	4.53	12.2	9.72	9.65
175		5.87	0.255	0.284	0.608	0.448	0.518
176		18.1	0.625	0.761	1.82	1.39	1.56
177		81.6	3.74	4.69	9.64	8.49	8.98
178		22.1	1.24	1.68	3.52	3.40	3.56
179		38.9	2.04	2.65	5.88	5.29	5.73
180	180 + 193	316:C	11.2:C	12.7:C	29.1:C	23.7:C	24.3:C
181		4.54	0.153	0.108:EMPC	0.281:EMPC	0.180:EMPC	0.165
182		1.41	0.0750	0.0490:EMPC	0.172:EMPC	0.108:EMPC	0.108
183	183 + 185	102:C	3.96:C	4.58:C	10.2:C	8.38:C	9.06:C
184		0.168:EMPC	0.0473:U	0.0478:U	0.0600	0.0670:EMPC	0.0670:EMPC
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.104:EMPC	0.0473:U	0.0478:U	0.0495:U	0.0477:U	0.0368:U
187		153	8.76	11.1	24.3	22.0	23.4
188		0.149	0.0473:U	0.0478:U	0.0710:EMPC	0.0730	0.0590
189		9.01	0.331:EMPC	0.347:EMPC	0.787	0.617	0.589
190		34.6	1.45	1.66	3.47	2.87	2.98:EMPC
191		7.46	0.220	0.242	0.569	0.450	0.483
192		0.0491:U	0.0473:U	0.0478:U	0.0495:U	0.0477:U	0.146:U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		40.4	2.08	2.94	6.83	6.09	5.38
195		17.3	1.21	1.71	3.36	3.03	2.99
196		21.7	1.11	1.48	3.79	3.17	3.05
197	197 + 200	9.25:C J	0.610:C	0.726:C	1.23:C J	1.09:C J	1.74:C
198	198 + 199	42.6:C	2.80:C	4.05:C	9.73:C	8.92:C	8.23:C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		5.47	0.371:EMPC	0.596	1.31	1.08	1.16
202		10.2	1.02	1.57	3.19	2.96	3.06
203		31.2	2.26	3.40	6.95	6.36	6.09
204		0.0491:U	0.0473:U	0.0478:U	0.0495:U	0.0477:U	0.0368:U
205		2.56	0.158:EMPC	0.235:EMPC	0.437:EMPC	0.406	0.404:EMPC
206		15.5	1.88	2.85	6.96	6.35	5.52
207		2.22	0.254:EMPC	0.405:EMPC	0.948	0.888	0.810
208		3.84	0.707	0.988:EMPC	2.56	2.35	2.11
209		7.48	1.85	2.94	7.14	7.75	7.16

**Total PCBs as Congeners in ug/kg, dry weight**

Total PCBs as Congeners (full EMPC/full SDL)	29.7:J	1.70:J	1.09:J	2.10:J	1.24:J	1.13:J
Total PCBs as Congeners (KM-based)	29.7:J	1.69:J	1.08:J	2.10:J	1.24:J	1.12:J
Total PCBs as Congeners (KM-based, capped)	29.7:J	1.69:J	1.08:J	2.10:J	1.24:J	1.12:J

**Notes:**

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
 (Page 3 of 14)

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P15 08022115SD 2/21/2008	Forebay P16 08022116SD 2/21/2008	Forebay P17 08022117SD 2/21/2008	Forebay P18 08022118SD 2/11/2008	Forebay P21 08022121SD 2/12/2008	Forebay P05 08031905SD 3/19/2008
Individual Congeners in pg/g (ng/kg), dry weight							
1		0.671	0.298:EMPC	0.337:EMPC	0.183:	0.212:	0.179:
2		6.34:	6.03:	4.21:	1.54:	3.61:	0.113:U
3		0.515:	0.387:EMPC	0.371:EMPC	0.245:EMPC	0.294:EMPC	0.153:EMPC
4		0.965:	0.892:	0.457:	0.466:	0.386:	0.777:
5		0.0700:EMPC	0.0493:U	0.0669:UJ	0.0480:U	0.0488:U	0.0479:U
6		0.431:	0.472:	0.294:EMPC	0.215:	0.230:	0.182:
7		0.133:EMPC	0.155:EMPC	0.0920:J	0.122:	0.134:	0.153:
8		1.95:	2.65:	1.27:J	0.978:	1.01:	0.394:U
9		0.107:EMPC	0.147:	0.0800:EMPC	0.0600:	0.0570:	0.0750:EMPC
10		0.0618:U	0.0478:U	0.0585:UJ	0.0478:U	0.0488:U	0.0580:
11		118:	92.2:	65.2:J	71.5:	71.1:	11.9:
12	12 + 13	1.04:C EMPC	1.10:C	0.776:C J	0.740:C	0.936:C	0.185:C EMPC
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0720:	0.0640:EMPC	0.0605:UJ	0.0478:U	0.0488:U	0.0479:U
15		2.83:	4.36:	2.33:	1.75:	2.70:	0.676:
16		1.99:	2.09:	0.817:EMPC	0.759:	0.521:	0.163:EMPC
17		2.18:	2.47:	0.970:	0.759:	0.646:	0.804:
18	18 + 30	4.79:C	4.66:C	2.04:C	1.96:C	1.42:C	1.23:C
19		0.399:	0.559:EMPC	0.255:EMPC	0.201:EMPC	0.161:EMPC	0.524:
20	20 + 28	10.7:C	13.2:C	8.21:C	5.31:C	5.49:C	1.30:C
21	21 + 33	3.53:C	5.27:C	2.87:C	1.49:C	1.53:C	0.315:C U
22		3.83:	3.99:	2.70:	1.89:	1.58:	0.319:
23		0.0618:U	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
24		0.0660:EMPC	0.0880:EMPC	0.0475:U	0.0478:U	0.0488:U	0.0479:U
25		0.600:	0.861:	0.435:	0.250:	0.250:EMPC	0.628:
26	26 + 29	1.28:C	1.73:C	0.922:C	0.498:C	0.529:C	0.781:C
27		0.429:	0.377:	0.140:	0.182:	0.114:	0.282:
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		7.18:	8.59:	5.58:	3.50:	3.35:	0.971:
32		0.820:	1.15:	0.661:	0.321:	0.221:	0.755:
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0618:U	0.0630:	0.0475:U	0.0478:U	0.0488:U	0.0479:U
35		0.516:	0.532:	0.344:	0.298:	0.347:EMPC	0.0479:U
36		0.163:	0.117:	0.106:EMPC	0.0910:EMPC	0.115:EMPC	0.0479:U
37		4.00:	5.01:	2.94:	2.21:	2.60:	0.396:U
38		0.175:	0.115:EMPC	0.0920:	0.0570:EMPC	0.0580:	0.0479:U
39		0.0920:EMPC	0.0560:EMPC	0.0475:U	0.0478:U	0.0488:U	0.0479:U
40	40 + 41 + 71	4.98:C	3.83:C	2.55:C	2.30:C	1.52:C	1.38:C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		3.66:	2.43:	1.55:	1.75:	1.11:	0.724:
43		0.356:	0.230:EMPC	0.191:	0.143:	0.119:	0.105:
44	44 + 47 + 65	14.8:C	9.75:C	6.35:C	7.14:C	5.02:C	6.40:C
45	45 + 51	1.48:C	1.15:C	0.783:C	0.602:C	0.443:C	0.553:C
46		0.458:	0.399:	0.235:	0.178:EMPC	0.142:EMPC	0.208:EMPC
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		2.11:	1.63:	1.05:	1.05:	0.680:	0.241:
49	49 + 69	7.72:C	5.59:C	3.86:C	3.62:C	3.08:C	4.07:C
50	50 + 53	1.46:C	1.05:C	0.666:C	0.620:C	0.408:C	1.38:C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		17.0:	11.8:	8.12:	8.54:	7.33:	13.1:
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0618:U	0.0478:U	0.0486:U	0.0478:U	0.0488:U	0.0900:EMPC
55		0.189:EMPC	0.171:	0.208:	0.180:	0.172:EMPC	0.0802:U
56		6.32:	5.47:	4.29:	3.56:	2.64:	1.28:
57		0.128:U	0.0742:U	0.0854:U	0.112:U	0.0915:U	0.0768:U
58		0.135:U	0.0781:U	0.0898:U	0.118:U	0.0963:U	0.0808:U
59	59 + 62 + 75	1.13:C	0.879:C	0.577:C	0.567:C	0.450:C	0.122:C
60		3.63:	2.95:	2.70:	2.45:	1.92:	0.701:
61	61 + 70 + 74 + 76	26.9:C	22.2:C	18.5:C	15.4:C	13.3:C	11.8:C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.726:	0.534:	0.477:	0.379:	0.347:EMPC	0.127:EMPC
64		5.91:	4.42:	3.35:	3.30:	2.45:	1.99:
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		15.7:	13.0:	10.6:	9.17:	8.20:	4.20:
67		0.368:	0.341:	0.225:EMPC	0.155:	0.164:	0.0675:U
68		0.158:EMPC	0.140:EMPC	0.0827:U	0.109:U	0.0886:U	0.0744:U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.215:EMPC	0.174:EMPC	0.103:EMPC	0.109:U	0.0887:U	0.0744:U
73		0.0618:U	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		2.40:	2.17:	1.51:	1.32:	1.47:	0.209:
78		0.127:U	0.0734:U	0.0845:U	0.111:U	0.0905:U	0.0760:U
79		0.482:	0.379:	0.227:EMPC	0.205:EMPC	0.248:	0.186:EMPC
80		0.117:U	0.0680:U	0.0783:U	0.103:U	0.0839:U	0.0704:U
81		0.138:U	0.0754:U	0.0802:U	0.115:U	0.0934:U	0.0773:U
82		2.94:	2.97:	1.84:	1.65:	1.62:	1.98:
83	83 + 99	24.4:C	17.9:C	12.3:C	11.7:C	11.6:C	11.1:C
84		5.94:	4.88:	3.12:	2.73:	2.59:	3.89:
85	85 + 116 + 117	7.79:C	6.93:C	4.90:C	4.22:C	4.38:C	3.98:C
86	86 + 87 + 97 + 108 + 119 + 125	23.5:C	18.2:C	12.1:C	11.8:C	11.8:C	13.0:C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	4.21:C	3.24:C	2.23:C	2.06:C	1.90:C	2.3

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
 (Page 4 of 14)

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P15 0802215SD 2/21/2008	Forebay P16 0802216SD 2/21/2008	Forebay P17 0802217SD 2/21/2008	Forebay P18 0802218SD 2/21/2008	Forebay P21 080221SD 2/12/2008	Forebay P05 08031905SD 3/19/2008
128	128 + 166	9.53:C	9.51:C	6.89:C	5.57:C	7.54:C	3.22:C
129	129 + 138 + 160 + 163	62.5:C	55.9:C	39.5:C	35.5:C	43.3:C	20.9:C
130		3.78:	3.62:	2.56:	2.16:	2.90:	1.10:
131		0.434:	0.483:EMPC	0.277:	0.237:	0.389:EMPC	0.214:EMPC
132		12.0:	12.2:	8.41:	6.06:	10.1:	4.47:
133		0.956:EMPC	0.836:	0.607:	0.559:	0.743:	0.177:
134	134 + 143	1.95:C	1.91:C	1.25:C	1.03:C	1.51:C	0.732:C
135	135 + 151 + 154	18.9:C	15.3:C	9.93:C	8.92:C	11.8:C	3.02:C
136		4.58:	3.86:	2.19:	1.92:	2.83:	1.15:
137		1.65:	1.74:	1.22:	1.24:	1.49:	1.23:
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.855:C	0.785:C EMPC	0.550:C	0.442:C	0.648:C	0.277:C EMPC
140	139 + 140	C139	C139	C139	C139	C139	C139
141		4.92:	5.21:	3.59:	2.71:	4.09:	1.64:
142		0.0772:U	0.0951:U	0.0728:U	0.0537:U	0.0868:U	0.0479:U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		1.65:	1.51:EMPC	1.11:	0.829:	1.25:EMPC	0.424:
145		0.0618:U	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
146		12.0:	10.3:	7.86:	7.06:	7.12:	2.43:
147	147 + 149	37.8:C	32.7:C	23.7:C	18.7:C	25.3:C	9.13:C
148		0.114:EMPC	0.117:EMPC	0.0770:EMPC	0.151:	0.101:EMPC	0.0479:U
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.100:EMPC	0.0730:EMPC	0.0475:U	0.0478:U	0.0580:	0.0479:U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.0618:U	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
153	153 + 168	66.7:C	51.0:C	35.1:C	38.3:C	38.8:C	20.4:C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.0690:	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
156	156 + 157	6.53:C	6.61:C	4.48:C	3.81:C	4.70:C	3.50:C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		4.55:	4.49:	3.09:	2.58:	3.41:	1.76:
159		0.452:	0.420:	0.340:	0.202:	0.307:	0.0550:
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.0618:U	0.0683:U	0.0523:U	0.0478:U	0.0623:U	0.0479:U
162		0.158:EMPC	0.0727:U	0.130:EMPC	0.101:	0.123:EMPC	0.0530:EMPC
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		2.92:	2.94:	2.08:	1.59:	2.27:	0.931:EMPC
165		0.0642:U	0.0791:U	0.0605:U	0.0478:U	0.0722:U	0.0479:U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		3.37:	2.87:	1.84:	1.90:	1.90:	1.52:
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.161:EMPC	0.132:U	0.109:U	0.0841:U	0.103:U	0.0479:U
170		9.65:	10.4:	8.28:	4.95:	6.51:	1.80:
171	171 + 173	4.05:C	4.12:C	2.74:C	2.05:C	2.61:C	0.577:C
172		2.13:	2.04:EMPC	1.34:	1.02:	1.25:	0.212:
173	171 + 173	C171	C171	C171	C171	C171	C171
174		9.67:	9.52:	6.72:	4.68:	6.26:	1.01:
175		0.542:	0.524:	0.292:	0.267:	0.343:	0.0479:U
176		1.60:	1.47:	1.09:	0.801:	1.11:	0.140:EMPC
177		9.85:	9.45:	6.50:	4.72:	6.26:	0.807:
178		4.36:	3.57:	2.61:	2.28:	2.52:	0.328:EMPC
179		6.75:	6.18:	4.18:	3.40:	4.92:	0.491:
180	180 + 193	27.7:C	26.1:C	20.9:C	14.0:C	16.7:C	3.50:C
181		0.134:	0.152:EMPC	0.0580:EMPC	0.0750:	0.107:EMPC	0.0479:U
182		0.185:	0.0478:U	0.105:EMPC	0.0900:	0.0488:U	0.0479:U
183	183 + 185	9.97:C	8.75:C	6.13:C	4.78:C	5.39:C	1.04:C
184		0.0660:	0.0680:	0.0590:EMPC	0.0478:U	0.0540:	0.0479:U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0618:U	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
187		28.3:	23.3:	17.4:	13.9:	15.4:	2.31:
188		0.0990:	0.0570:EMPC	0.0475:U	0.0478:U	0.0520:EMPC	0.0479:U
189		0.534:EMPC	0.452:	0.428:EMPC	0.217:EMPC	0.332:	0.127:EMPC
190		3.53:	2.68:	1.91:	1.73:	2.06:	0.447:
191		0.523:EMPC	0.412:EMPC	0.354:	0.229:	0.316:	0.0600:EMPC
192		0.0618:U	0.0949:U	0.106:U	0.0478:U	0.0488:U	0.0479:U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		4.82:	4.86:	4.77:	2.40:	3.67:	0.429:
195		2.05:	3.38:	2.56:	1.10:	1.57:	0.226:
196		2.75:	2.82:	2.40:	1.55:	2.16:	0.215:
197	197 + 200	1.15:C J	1.35:C	1.31:C EMPC	0.722:C J	0.886:C J	0.0840:C
198	198 + 199	7.79:C	7.77:C	6.68:C	4.97:C	6.22:C	0.582:C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		1.22:	1.15:	0.789:	0.676:	0.893:	0.0810:
202		3.29:	2.92:	2.17:	1.83:	2.12:	0.171:
203		6.28:	5.77:	4.62:	3.85:	4.40:	0.542:
204		0.0618:U	0.0478:U	0.0475:U	0.0478:U	0.0488:U	0.0479:U
205		0.372:	0.400:	0.331:	0.169:	0.281:	0.0480:
206		5.36:	6.06:	4.52:	3.91:	4.78:	0.415:
207		0.700:	0.763:	0.569:EMPC	0.487:	0.621:EMPC	0.112:U
208		2.09:	2.27:	1.72:	1.55:	1.85:	0.113:U
209		5.44:	7.30:	4.83:	3.20:	8.55:	0.663:U
<b>Total PCBs as Congeners in ug/kg, dry weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)	0.979:J	0.842:J	0.593:J	0.524:J	0.575:J	0.306:J	
Total PCBs as Congeners (KM-based)	0.973:J	0.836:J	0.588:J	0.523:J	0.571:J	0.301:J	
Total PCBs as Congeners (KM-based, capped)	0.973:J	0.836:J	0.588:J	0.523:J	0.571:J	0.301:J	

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P06 08031806 SD 3/18/2008	Forebay P13 08031713 SD 3/17/2008	Forebay P14 08031814 SD 3/18/2008	Forebay P65 08022965 SD 2/29/2008	Forebay P67 08030367 SD 3/3/2008	Forebay P88 08031788 SD 3/17/2008
Individual Congeners in pg/g (ng/kg), dry weight							
1		0.368 U	0.240	0.110	0.147	0.104	0.144
2		0.711 EMPC	3.00	0.832	2.07	0.170 U	0.432
3		0.467	0.343 EMPC	0.123 EMPC	0.206	0.0660 EMPC	0.184 EMPC
4		1.39 EMPC	0.820	0.197 EMPC	0.291	0.113	0.283
5		0.212 UU	0.0486 U	0.0509 U	0.0487 U	0.0479 U	0.0571 U
6		0.258 EMPC	0.359 J	0.0790	0.148	0.0600 EMPC	0.125
7		0.202 UU	0.487	0.177 EMPC	0.0740	0.0830 EMPC	0.0860 U
8		1.15 EMPC	1.49	0.343 U	0.690 U	0.246 U	0.460
9		0.189 UU	0.0930 EMPC	0.0484 U	0.0487 U	0.0479 U	0.0525 U
10		0.191 UU	0.0486 U	0.0484 U	0.0487 U	0.0479 U	0.0514 U
11		32.1 J	110	20.9	48.5	10.5	35.1
12	12 + 13	0.223 C UU	0.857 C EMPC	0.456 C	0.684 C	0.156 C EMPC	0.0565 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.204 UU	0.0486 U	0.0484 U	0.0487 U	0.0479 U	0.0546 U
15		1.02	2.75	0.771	1.74	0.346	0.876
16		0.408	1.19	0.185	0.472	0.125 EMPC	0.402
17		1.25	1.20	0.168	0.478	0.127 EMPC	0.389
18	18 + 30	1.52 C	3.53 C	0.402 C	1.10 C	0.273 C	0.870 C
19		0.723	0.230	0.0630 EMPC	0.104 EMPC	0.0530 EMPC	0.136 EMPC
20	20 + 28	2.94 C	7.12 C	1.57 C	4.17 C	0.908 C	1.86 C
21	21 + 33	1.23 C	2.41 C	0.434 C U	1.13 C	0.333 C U	0.687 C
22		0.698	2.53	0.447	1.21	0.392	0.678
23		0.0626 U	0.0486 U	0.0484 U	0.0487 U	0.0479 U	0.0423 U
24		0.0626 U	0.0486 U	0.0484 U	0.0487 U	0.0479 U	0.0423 U
25		0.405	0.401	0.0820	0.203	0.0479 U	0.107
26	26 + 29	0.678 C	0.945 C	0.153 C	0.437 C	0.120 C	0.229 C
27		0.395	0.280	0.0520 EMPC	0.0890	0.0479 U	0.0970
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		2.49	5.00	0.927	2.46	0.593 U	1.16
32		0.635	0.387	0.0860 EMPC	0.188	0.0900	0.178
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0626 U	0.0486 U	0.0484 U	0.0487 U	0.0479 U	0.0423 U
35		0.150	0.418	0.0910 EMPC	0.221	0.0540 EMPC	0.118
36		0.0626 U	0.0970	0.0484 U	0.0640 EMPC	0.0479 U	0.0423 U
37		0.808	3.96	0.745	1.88	0.439	0.811
38		0.0626 U	0.0970	0.0484 U	0.0487 U	0.0479 U	0.0423 U
39		0.0626 U	0.0630	0.0484 U	0.0487 U	0.0479 U	0.0423 U
40	40 + 41 + 71	2.88 C	3.03 C	0.482 C	1.26 C	0.550 C	0.867 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		1.44	2.68	0.282	0.830	0.277 EMPC	0.605
43		0.284	0.214	0.0548 U	0.0580 EMPC	0.0582 U	0.0510
44	44 + 47 + 65	13.7 C	10.4 C	1.32 C	4.16 C	1.03 C	2.73 C
45	45 + 51	0.538 C	0.730 C	0.0880 C EMPC	0.317 C	0.104 C	0.261 C
46		0.251	0.199	0.0538 U	0.140	0.0630 EMPC	0.0840
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.712	1.39	0.180 EMPC	0.556	0.163	0.370
49	49 + 69	8.72 C	4.45 C	0.733 C	2.28 C	0.515 C	1.24 C
50	50 + 53	1.61 C	0.848 C	0.118 C	0.310 C	0.102 C EMPC	0.291 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		32.9	10.9	1.73	6.22	1.07	3.50
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0626 U	0.0486 U	0.0484 U	0.0487 U	0.0533 U	0.0423 U
55		0.121 U	0.197	0.0717 U	0.126 EMPC	0.0756 U	0.0820 EMPC
56		3.93	3.87	0.762	1.96	0.714	1.14
57		0.115 U	0.0900 U	0.0695 U	0.105 U	0.0734 U	0.0663 U
58		0.118 U	0.0910 U	0.0704 U	0.106 U	0.0742 U	0.0659 U
59	59 + 62 + 75	0.404 C EMPC	0.828 C	0.0880 C EMPC	0.346 C EMPC	0.0510 C	0.209 C U
60		2.07	2.43	0.588	1.38	0.436	0.709
61	61 + 70 + 74 + 76	37.3 C	17.6 C	3.69 C	10.5 C	2.07 C	4.84 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.489 EMPC	0.447	0.0690 EMPC	0.269	0.0712 U	0.105 EMPC
64		5.19	3.89	0.656	2.00	0.478	0.987
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		13.0	11.6	2.48	6.88	1.41	3.11
67		0.107 EMPC	0.242	0.0622 U	0.139	0.0656 U	0.0570 EMPC
68		0.107 U	0.119 EMPC	0.0674 U	0.101 U	0.0711 U	0.0612 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.109 U	0.156	0.0672 U	0.101 U	0.0709 U	0.0630 U
73		0.0626 U	0.0486 U	0.0484 U	0.0487 U	0.0479 U	0.0423 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		0.596	1.63	0.417	1.04	0.289	0.409
78		0.123 U	0.0867 U	0.0670 U	0.101 U	0.0707 U	0.0671 U
79		0.539	0.343	0.0568 U	0.172	0.0599 U	0.105 EMPC
80		0.110 U	0.0790 U	0.0611 U	0.0919 U	0.0644 U	0.0599 U
81		0.106 U	0.0910 U	0.0694 U	0.102 U	0.0693 U	0.0662 U
82		5.79	1.61	0.360	1.20	0.270 EMPC	0.572
83	83 + 99	31.0 C	15.0 C	2.78 C	8.81 C	1.01 C	4.73 C
84		11.8	3.22	0.728	2.41	0.368 EMPC	1.09
85	85 + 116 + 117	11.7 C	4.69 C	0.993 C	3.07 C	0.413 C	1.39 C
86	86 + 87 + 97 + 108 + 119 + 125	35.7 C	15.0 C	2.77 C	9.00 C	1.17 C	4.48 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	6.54 C	2.28 C	0.462 C	1.47 C	0.218 C	0.753 C

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P06 08031806 SD 3/18/2008	Forebay P13 08031713 SD 3/17/2008	Forebay P14 08031814 SD 3/18/2008	Forebay P65 08022905 SD 2/29/2008	Forebay P67 08030367 SD 3/3/2008	Forebay P88 08031758 SD 3/17/2008
128	128 + 166	8.59:C	6.15:C	1.61:C	4.96:C	0.621:C	1.75:C
129	129 + 138 + 160 + 163	52.8:C	41.1:C	9.69:C	27.0:C	3.67:C	13.8:C
130		2.98:	2.17	0.620 EMPC	1.57	0.189	0.645
131		0.602:	0.281	0.0730	0.197 EMPC	0.0479:U	0.0617:U
132		13.0:	7.21	2.00	5.46	0.702	2.33
133		0.415:	0.517	0.125	0.406	0.0479:U	0.153 EMPC
134	134 + 143	1.91:C	1.00:C	0.342:C	0.913:C	0.0870:C	0.330:C
135	135 + 151 + 154	7.66:C	9.26:C	2.92:C	6.77:C	0.811:C	2.94:C
136		3.12:	2.32	0.531	1.52	0.198 EMPC	0.741
137		3.50:	1.09	0.257	0.809	0.0970 EMPC	0.499
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.911:C	0.461:C	0.125 C EMPC	0.337:C EMPC	0.0520:C	0.147:C U
140	139 + 140	C139	C139	C139	C139	C139	C139
141		4.71:	2.96	0.920	2.45	0.386	1.07
142		0.0814:U	0.0649:U	0.0484:U	0.0626:U	0.0479:U	0.0616:U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		1.11:	0.931	0.343	0.718	0.0840	0.283
145		0.0626:U	0.0486:U	0.0484:U	0.0487:U	0.0479:U	0.0423:U
146		6.07:	7.03	2.00 EMPC	4.70	0.531	2.17
147	147 + 149	23.8:C	23.7:C	6.20:C	15.0:C	1.83:C	7.88:C
148		0.0626:U	0.0570	0.0484:U	0.0487:U	0.0479:U	0.0423:U
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.0626:U	0.0486:U	0.0484:U	0.0487:U	0.0479:U	0.0423:U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.0626:U	0.0486:U	0.0484:U	0.0487:U	0.0479:U	0.0423:U
153	153 + 168	41.7:C	45.5:C	9.18:C	23.4:C	2.94:C	15.1:C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.0626:U	0.0486:U	0.0484:U	0.0487:U	0.0479:U	0.0423:U
156	156 + 157	7.65:C	4.73:C	1.13:C	3.08:C	0.399:C	1.35:C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		4.38:	3.04	0.766	2.22	0.293	0.925
159		0.158:EMPC	0.260	0.0650 EMPC	0.207:EMPC	0.0479:U	0.107
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.0626:U	0.0486:U	0.0484:U	0.0487:U	0.0479:U	0.0423:U
162		0.187:	0.123 EMPC	0.0484:U	0.107:EMPC	0.0479:U	0.0452:U
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		2.51:	1.79	0.522	1.30	0.186 EMPC	0.577
165		0.0637:U	0.0513:U	0.0484:U	0.0495:U	0.0479:U	0.0494:U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		2.55:	2.46	0.461	1.37	0.173 EMPC	0.710:U
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.0626:U	0.104:U	0.0484:U	0.0931:U	0.0479:U	0.0485:U
170		4.30:	8.90	2.71	5.17	0.967	1.91
171	171 + 173	1.16:C	3.08:C	0.969:C	2.41:C	0.363:C EMPC	0.715:C
172		0.526:	1.91	0.561 EMPC	1.01	0.180	0.351
173	171 + 173	C171	C171	C171	C171	C171	C171
174		2.79:	7.10	2.29 EMPC	5.86	0.917 EMPC	1.82
175		0.132:	0.305:U	0.180:U	0.264	0.0479:U	0.100
176		0.351:EMPC	1.15:	0.386 EMPC	0.737	0.125 EMPC	0.228
177		2.15:	6.09 EMPC	1.82	5.35	0.723	1.68
178		0.713:	3.02	0.771 EMPC	1.87	0.284	0.657
179		1.18:	4.50	1.36	2.87	0.406	1.05
180	180 + 193	8.17:C	21.3:C	5.52:C	12.5:C	2.21:C	5.16:C
181		0.125:EMPC	0.336:U	0.199:U	0.0487:U	0.0479:U	0.0423:U
182		0.0626:U	0.311:U	0.183:U	0.0590:EMPC	0.0479:U	0.0423:U
183	183 + 185	2.54:C	6.82:C	2.03:C	4.74:C	0.701:C	1.89:C
184		0.0626:U	0.246:U	0.145:U	0.0487:U	0.0479:U	0.0423:U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0626:U	0.264:U	0.156:U	0.0487:U	0.0479:U	0.0423:U
187		5.28:	17.6	4.80	13.4	1.77	4.61
188		0.0626:U	0.229:U	0.0493:UJ	0.0487:U	0.0479:U	0.0423:U
189		0.241:EMPC	0.620 EMPC	0.814:U	0.242	0.0479:U	0.100
190		0.980:	2.52	0.602 EMPC	1.59	0.247 EMPC	0.641
191		0.170:	0.332:EMPC	0.318 EMPC	0.225	0.0479:U	0.0660
192		0.0626:U	0.291:U	0.172:U	0.0487:U	0.0479:U	0.0423:U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		1.85:	6.45	1.63	2.64	0.510	1.12
195		0.672:	2.59	1.04	1.21	0.233 EMPC	0.499
196		0.812:	3.02	0.691 EMPC	1.32	0.224	0.560
197	197 + 200	0.316:C	1.26:C	0.239:C U	0.632:C J	0.109 C EMPC	0.211:C U
198	198 + 199	2.31:C	8.61:C	1.64:C	3.91:C	0.744:C	1.49:C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		0.263:EMPC	1.01:EMPC	0.333 EMPC	0.678	0.111 EMPC	0.204:U
202		0.653:	2.14	0.582	1.42	0.199	0.437
203		1.76:	6.12	1.05	2.77	0.534	1.25
204		0.0626:U	0.181:U	0.239:U	0.0487:U	0.0479:U	0.0423:U
205		0.127:EMPC	0.477:EMPC	0.305:U	0.181	0.0479:U	0.0810
206		1.87:	5.28	1.14	2.94	0.449	0.968
207		0.267:	0.751:U	0.896:U	0.508	0.145:U	0.158
208		0.600:	1.86 EMPC	0.451 EMPC	1.08	0.143:U	0.386
209		1.83:	5.33	1.34	3.51	0.366:U	1.14

**Total PCBs as Congeners in ug/kg, dry weight**

Total PCBs as Congeners (full EMPC/full SDL)	0.784:J	0.69
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**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P89 08031798 SD 3/17/2008	Reference P22 08030522 SD 3/5/2008	Reference P24 08030524 SD 3/5/2008	Reference P26 08030426 SD 3/4/2008	Reference P27 08030427 SD 3/4/2008	Reference P28 08030428 SD 3/4/2008
Individual Congeners in pg/g (ng/kg), dry weight							
1		0.100 EMPC	0.144	0.395	0.129	0.233	0.145
2		0.636	4.82	3.23	0.937	3.04	2.16
3		0.238 EMPC	0.362	0.244	0.162	0.319	0.242
4		0.269 EMPC	0.293	0.352	0.301	1.19	0.278 EMPC
5		0.0834 U	0.0769 U	0.154 U	0.0682 U	0.107 U	0.135 U
6		0.0950 EMPC	0.120 EMPC	0.204 EMPC	0.129	0.346	0.180 EMPC
7		0.0780 U	0.0880 U	0.139 U	0.0618 U	0.0966 U	0.123 U
8		0.404	0.672	0.693	0.464	0.876	0.716
9		0.0766 U	0.0740 EMPC	0.137 U	0.0606 U	0.0948 U	0.120 U
10		0.0750 U	0.0692 U	0.138 U	0.0614 U	0.0959 U	0.122 U
11		19.9	57.0	68.0	57.6	205	66.4
12	12 + 13	0.0825 C U	0.0761 C U	0.150 C U	0.530 C	0.104 C U	0.132 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0796 U	0.0735 U	0.143 U	0.0633 U	0.0989 U	0.125 U
15		0.660	1.52	1.59	1.12	2.59	1.83
16		0.332	0.553	0.616	0.543	2.43	0.507
17		0.287	0.568	0.604	0.455	1.60	0.531 EMPC
18	18 + 30	0.619 C	1.31 C	1.39 C	1.10 C	4.70 C	1.17 C
19		0.177	0.126	0.159 EMPC	0.129 EMPC	0.260 EMPC	0.107 EMPC
20	20 + 28	1.31 C	4.43 C	4.15 C	2.70 C	5.93 C	4.86 C
21	21 + 33	0.453 C U	1.25 C	1.24 C	0.855 C	1.86 C	1.37 C
22		0.482	1.37	1.38	0.913	2.94	1.48
23		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
24		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0550	0.0443 U
25		0.0870 EMPC	0.198	0.204	0.135	0.298	0.214
26	26 + 29	0.162 C	0.461 C	0.437 C	0.341 C	0.740 C	0.471 C
27		0.100 EMPC	0.111	0.113 EMPC	0.126	0.580	0.0940
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.841	2.82	2.65	1.77	3.47	3.01
32		0.128	0.244	0.222	0.190	0.285	0.264
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
35		0.0600 EMPC	0.230	0.279	0.238	0.438	0.326
36		0.0454 U	0.0850	0.0630 EMPC	0.0690	0.120	0.133 EMPC
37		0.634	1.67	1.57	1.10	2.22	1.93
38		0.0454 U	0.0650 EMPC	0.0710 EMPC	0.0500 EMPC	0.120	0.0590
39		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0790	0.0610
40	40 + 41 + 71	0.588 C U	1.65 C	1.58 C	1.14 C	2.70 C	1.55 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.519	1.06	1.15	0.880	3.84	0.939
43		0.0454 U	0.153	0.118 EMPC	0.0760 EMPC	0.204	0.148 EMPC
44	44 + 47 + 65	2.04 C U	4.57 C	5.29 C	3.94 C	18.0 C	4.46 C
45	45 + 51	0.185 C	0.470 C	0.415 C	0.355 C	0.771 C	0.475 C
46		0.0920 EMPC	0.150	0.144 EMPC	0.0950	0.166	0.183
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.231	0.650	0.687	0.484	1.48	0.643
49	49 + 69	0.825 C	2.71 C	2.52 C	1.72 C	3.41 C	2.76 C
50	50 + 53	0.244 C U	0.410 C	0.443 C	0.369 C	1.36 C	0.391 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		2.37	6.24	6.44	4.64	12.6	6.31
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
55		0.0620 EMPC	0.300	0.0990	0.115	0.207	0.225
56		0.963	2.37	2.38	1.73	3.74	2.46
57		0.0492 U	0.0554 U	0.0736 U	0.0362 U	0.0722 U	0.0774 U
58		0.0489 U	0.0551 U	0.0737 U	0.0362 U	0.0723 U	0.0775 U
59	59 + 62 + 75	0.148 C U	0.397 C U	0.394 C U	0.302 C U	1.01 C	0.390 C U
60		0.626 EMPC	1.67	1.58	1.03	1.95	1.70
61	61 + 70 + 74 + 76	3.55 C	11.5 C	10.8 C	7.36 C	14.2 C	10.7 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.0920	0.304	0.255	0.171	0.375	0.283
64		0.745	2.21	2.12	1.45	2.85	2.33
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		2.51	7.28	6.99	4.81	10.0	6.87
67		0.0580	0.137	0.125	0.0970	0.196	0.133
68		0.0454 U	0.0800	0.0760 EMPC	0.0450 EMPC	0.0820	0.0752 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.0467 U	0.0910 EMPC	0.0735 U	0.0450	0.0990 EMPC	0.0850 EMPC
73		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		0.341	0.989	0.983	0.699	1.39	1.11
78		0.0498 U	0.0561 U	0.0768 U	0.0362 U	0.0754 U	0.0808 U
79		0.0810 EMPC	0.191	0.212	0.183	0.612	0.206
80		0.0454 U	0.0500 U	0.0689 U	0.0362 U	0.0676 U	0.0725 U
81		0.0486 U	0.0630 EMPC	0.0786 U	0.0490 EMPC	0.100 EMPC	0.0832 U
82		0.386	1.14	1.01	1.15	1.53	1.23
83	83 + 99	3.33 C	9.91 C	9.78 C	8.11 C	19.2 C	9.86 C
84		0.811	2.55	2.43	2.12	3.94	2.48
85	85 + 116 + 117	1.12 C	3.42 C	3.01 C	2.72 C	5.27 C EMPC	3.55 C
86	86 + 87 + 97 + 108 + 119 + 125	3.57 C U	9.22 C	9.26 C	8.05 C	21.8 C	9.40 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	0.518 C	1.59 C	1.53 C	1.35 C	2.51 C	1.48 C
89		0.0454 U	0.102 EMPC	0.0800 EMPC	0.0820	0.0990 EMPC	0.0630 EMPC
90	90 +						

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P89 08031798 SD 3/17/2008	Reference P22 08030522 SD 3/5/2008	Reference P24 08030524 SD 3/5/2008	Reference P26 08030426 SD 3/4/2008	Reference P27 08030427 SD 3/4/2008	Reference P28 08030428 SD 3/4/2008
128	128 + 166	1.22 C	4.22 C	4.07 C	3.46 C	5.93 C	4.61 C
129	129 + 138 + 160 + 163	11.0 C	29.3 C	31.6 C	25.6 C	65.7 C	32.5 C
130		0.460	1.70	1.71	1.35	2.39	2.05
131		0.100	0.163 EMPC	0.157 EMPC	0.184	0.303	0.223
132		1.79	5.63	5.80	5.91	8.28	6.59
133		0.116 EMPC	0.463	0.365	0.283	0.493	0.438
134	134 + 143	0.216 C	0.807 C	0.758 C	0.707 C	1.18 C	0.948 C
135	135 + 151 + 154	2.30 C	6.76 C	7.47 C	5.60 C	11.2 C	7.66 C
136		0.581	1.62	1.96	1.47	2.59	1.83
137		0.359	0.929	0.852	0.788	1.41	0.880
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.114 C U	0.381 C	0.324 C	0.327 C	0.545 C	0.443 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		0.912	2.24	2.71	2.28	3.28	2.68
142		0.0564 U	0.0870 U	0.0614 U	0.0660 U	0.0819 U	0.0521 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		0.244	0.646	0.726	0.613	1.03	0.650
145		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
146		1.61	3.92 J	3.89 J	3.31 J	8.46 J	4.23 J
147	147 + 149	5.81 C	16.6 C	18.3 C	15.4 C	34.9 C	18.5 C
148		0.0454 U	0.0590 EMPC	0.0650 EMPC	0.0362 U	0.0720	0.0510 EMPC
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0500 EMPC	0.0480
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
153	153 + 168	12.9 C	26.9 C	31.8 C	27.1 C	100 C	27.9 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
156	156 + 157	0.935 C U	2.54 C	2.58 C	2.42 C	5.17 C	2.82 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		0.777	2.11	2.23	1.91	3.67	2.35
159		0.124	0.154	0.339	0.248	0.286	0.288
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.0454 U	0.0598 U	0.0467 U	0.0474 U	0.0588 U	0.0443 U
162		0.0454 U	0.0780	0.0840 EMPC	0.0890	0.125 EMPC	0.139
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		0.399	1.30	1.45	1.26	2.06	1.67
165		0.0454 U	0.0699 U	0.0505 U	0.0543 U	0.0674 U	0.0443 U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		0.640 U	1.18	1.30	1.25	3.84	1.18
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.0454 U	0.0685 U	0.102 U	0.0571 U	0.0971 U	0.110 U
170		2.18	3.76	4.89	3.87	5.51	5.64
171	171 + 173	0.765 C	1.55 C	1.90 C	1.47 C EMPC	2.39 C	2.03 C
172		0.379	0.785	1.01	0.752	1.04	1.12
173	171 + 173	C171	C171	C171	C171	C171	C171
174		2.12	3.70	5.63	4.18	5.36	5.39
175		0.105 EMPC	0.205 EMPC	0.270	0.183 EMPC	0.333	0.224
176		0.256 EMPC	0.581	0.780	0.564	0.966	0.727
177		1.61	3.89	4.43	3.24	5.22	4.88
178		0.542	1.63	1.92	1.28	2.16	2.04
179		0.987	2.54	3.41	2.44	3.65	3.22
180	180 + 193	6.03 C	10.1 C	14.1 C	11.0 C	22.1 C	14.0 C
181		0.0454 U	0.0470 EMPC	0.0540	0.0730 EMPC	0.112	0.114 EMPC
182		0.0454 U	0.0650 U	0.0870 U	0.0580 U	0.0960 U	0.0540 U
183	183 + 185	1.81 C	3.57 C	4.84 C	3.81 C	7.36 C	4.56 C
184		0.0454 U	0.0453 U	0.0490 EMPC	0.0362 U	0.0550	0.0443 U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
187		4.24	10.5	13.0	9.68	19.8	12.8
188		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0540 U	0.0443 U
189		0.0980	0.225	0.260	0.264 EMPC	0.351	0.416
190		0.751	1.31	1.60	1.27	3.12	1.74
191		0.106	0.193	0.211	0.185	0.312	0.224
192		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		1.94	2.87	3.34	2.42	3.24	3.60
195		0.853	1.25	1.41	0.988	1.50	1.57
196		0.909	1.38	1.77	1.34	1.90	1.85
197	197 + 200	0.301 C U	0.375 C J	0.415 C J	0.335 C J	0.447 C J	0.491 C J
198	198 + 199	1.89 C	4.52 C	5.38 C	4.09 C	5.79 C	6.38 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		0.223 U	0.636	0.686	0.527	0.765	0.662
202		0.362	1.53	1.71	1.13	1.92	1.86
203		1.55	3.29	3.84	3.00	6.21	4.26
204		0.0454 U	0.0453 U	0.0467 U	0.0362 U	0.0450 U	0.0443 U
205		0.116	0.231	0.245	0.149	0.192	0.222
206		0.994	2.90	3.38	2.35	4.29	6.18
207		0.107 U	0.514	0.432	0.353	0.547	0.652
208		0.300	1.17	1.31	0.967	1.61	2.41
209		0.669 U	3.71	3.61	2.46	4.55	6.38

**Total PCBs as Congeners in ug/kg, dry weight**

Total PCBs as Congeners (full EMPC/full SDL)	0.161 J	0.416 J	0.450 J	0.364 J	0.937 J	0.461 J
Total PCBs as Congeners (KM-based)	0.151 J	0.413 J	0.448 J	0.361 J	0.932 J	0.458 J
Total PCBs as Congeners (KM-based, capped)	0.151 J	0.413 J	0.448 J	0.361 J	0.932 J	0.458 J

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P29 0802229 SD 2/22/2008	Reference P34 0802254 SD 2/25/2008	Reference P35 0802253 SD 2/25/2008	Reference P36 08022536 SD 2/25/2008	Reference P37 08022637 SD 2/26/2008	Reference P38 08022738 SD 2/27/2008
Individual Congeners in pg/g (ng/kg), dry weight							
1		0.198	0.375	0.156	0.176	0.186 U	0.178 EMPC
2		7.02	7.86	2.01	2.11	1.83	1.69
3		0.580	0.880	0.253	0.222	0.469 EMPC	0.241
4		0.928	1.22	0.400 EMPC	0.488	0.414	1.02
5		0.130 U	0.0850 EMPC	0.0916 U	0.105 U	0.115 U	0.0987 U
6		1.10	0.878	0.218	0.243	0.285 EMPC	0.332
7		0.258 U	0.215 U	0.0980 U	0.104 U	0.138	0.103 U
8		4.71	3.33	0.880	0.988	1.22	0.904
9		0.364	0.219	0.0814 U	0.0938 U	0.102 U	0.0885 U
10		0.117 U	0.0761 U	0.0824 U	0.0973 U	0.106 U	0.0919 U
11		70.5	83.0	65.0	69.4	68.3	135
12	12 + 13	1.43 C	1.40 C	0.0893 C UJ	0.102 C U	0.290 C	0.0966 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.121 U	0.110 EMPC	0.0850 U	0.0980 U	0.104 U	0.0925 U
15		5.29	5.42	1.99	2.26	2.54	1.98
16		2.08	2.19	0.621	0.884	0.690	1.64
17		2.57	2.64	0.797	0.958	0.814	1.29
18	18 + 30	5.01 C	5.11 C	1.57 C	2.17 C	1.76 C	3.60 C
19		0.352	0.464	0.141	0.197 EMPC	0.196 U	0.189
20	20 + 28	16.1 C	15.5 C	5.51 C	6.11 C	6.40 C	5.01 C
21	21 + 33	6.77 C	5.58 C J	1.47 C	1.89 C	2.07 C	1.56 C
22		5.44	4.93	1.65	2.00	1.93	2.16
23		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.123 U	0.0440 U
24		0.0870 EMPC	0.0810	0.0466 U	0.0490 U	0.118 U	0.0440 U
25		0.930	0.883	0.259	0.290	0.313 EMPC	0.269
26	26 + 29	2.02 C	1.83 C	0.546 C	0.659 C	0.744 C	0.657 C
27		0.364	0.466	0.129 J	0.195	0.159 EMPC	0.397
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		11.5	10.9 J	3.32 J	3.87	4.24	3.09
32		1.07	0.859	0.258	0.316	0.321	0.238
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0580 EMPC	0.0620 EMPC	0.0466 U	0.0490 U	0.116 U	0.0440 U
35		0.387	0.543	0.319	0.261	0.387 EMPC	0.349
36		0.0970 EMPC	0.136	0.101 EMPC	0.103	0.109 U	0.112 EMPC
37		4.09	4.73	2.10	2.15	2.41	1.97
38		0.0530 EMPC	0.120	0.0530	0.0490 EMPC	0.112 U	0.0440
39		0.0680 EMPC	0.136	0.0466 U	0.0490 U	0.111 U	0.0580 EMPC
40	40 + 41 + 71	3.73 C	6.64 C	2.03 C	1.76 C	1.96 C	1.98 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		2.22	4.01	1.14	1.30	1.28	2.02
43		0.306	0.543	0.132 EMPC	0.157 EMPC	0.131 EMPC	0.183 EMPC
44	44 + 47 + 65	8.76 C	21.4 C	5.03 C	5.26 C	4.90 C	8.45 C
45	45 + 51	1.13 C	1.80 C	0.527 C	0.523 C	0.588 C	0.470 C
46		0.362	0.646	0.167	0.140	0.171	0.160
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		1.76	3.03	0.702	0.834	0.928	1.03
49	49 + 69	5.26 C	11.9 C	3.35 C	2.88 C	3.09 C	2.85 C
50	50 + 53	0.815 C	1.83 C	0.485 C	0.471 C	0.506 C EMPC	0.726 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		10.4	37.5	7.05	6.82	6.40	8.74
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0532 U	0.0440 U
55		0.293	0.428	0.151	0.233	0.0648 U	0.194
56		3.18	6.34	2.04	2.41	2.31	2.35
57		0.0577 U	0.114 U	0.0693 U	0.0858 U	0.0610 U	0.0731 U
58		0.0578 U	0.114 U	0.0694 U	0.0896 U	0.0609 U	0.0763 U
59	59 + 62 + 75	0.822 C	1.23 C	0.396 C U	0.522 C	0.471 C EMPC	0.591 C
60		1.95	3.47	1.38	1.63	1.53	1.53
61	61 + 70 + 74 + 76	15.0 C	40.3 C	10.5 C	11.4 C	11.0 C	11.1 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.393	0.777	0.261	0.269	0.257	0.248
64		4.16	8.72	2.25	2.43	2.59	2.26
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		9.65	18.0	6.49	7.22	6.39	7.06
67		0.263	0.368	0.159	0.174	0.160	0.155
68		0.110 EMPC	0.122	0.0673 U	0.0809 U	0.0690	0.0689 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.128 EMPC	0.206	0.0800	0.0802 U	0.0830	0.0890
73		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0498 U	0.0440 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		1.40	2.01	1.04	0.965	1.02	1.13
78		0.0602 U	0.119 U	0.0723 U	0.0871 U	0.0613 U	0.0743 U
79		0.255	0.605	0.154	0.162 EMPC	0.383 EMPC	0.295
80		0.0541 U	0.107 U	0.0649 U	0.0804 U	0.0557 U	0.0685 U
81		0.0730 EMPC	0.143	0.0750 U	0.0896 U	0.0639 U	0.0767 U
82		1.43	5.71	0.953	1.01	0.964	1.14
83	83 + 99	11.9 C	33.0 C	8.50 C	8.11 C	7.44 C	13.0 C
84		2.89	13.2	2.43	2.07	1.87	2.51
85	85 + 116 + 117	3.77 C	10.6 C	2.72 C	2.58 C	2.60 C	3.83 C
86	86 + 87 + 97 + 108 + 119 + 125	11.2 C	39.1 C	8.07 C	7.70 C	6.85 C	13.3 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	1.97 C	6.79 C	1.56 C	1.36 C	1.30 C	1.80 C
89		0.100 EMPC	0.462	0.0790 EMPC	0.0690	0.0860 EMPC	0.0840 EMPC
90	90 + 101 + 113	18.4 C	58.9 C	13.1 C	13.1 C	11.8 C	20.7 C
91	88 + 91	C88	C88	C88	C88	C88	

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P29 08022229 SD 2/22/2008	Reference P24 08022534 SD 2/25/2008	Reference P25 08022535 SD 2/25/2008	Reference P26 08022536 SD 2/25/2008	Reference P27 08022637 SD 2/26/2008	Reference P28 08022738 SD 2/27/2008
128	128 + 166	5.17 C	12.7 C	4.08 C	3.88 C	3.49 C	4.37 C
129	129 + 138 + 160 + 163	36.7 C	81.3 C	25.9 C	26.9 C	23.6 C	38.8 C
130		2.12	4.97	1.63	1.66	1.42	1.94
131		0.244	0.868	0.188	0.185	0.159 EMPC	0.247
132		7.24	22.6	5.81	5.23	5.15	6.08
133		0.508	0.956	0.459	0.340	0.388	0.411
134	134 + 143	1.10 C	3.31 C	0.809 C	0.712 C	0.718 C EMPC	0.886 C
135	135 + 151 + 154	8.30 C	17.9 C	6.04 C	6.18 C	6.69 C	7.89 C
136		2.11	6.15	1.73	1.49	1.52	1.84
137		0.955	3.11	0.768	0.710	0.683	0.838
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.454 C	1.21 C	0.381 C	0.320 C	0.304 C	0.413 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		2.75	8.66	2.14	1.94	1.72	2.04
142		0.0742 U	0.123 U	0.0648 U	0.0515 U	0.0682 U	0.0440 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		0.821	2.37	0.589	0.552	0.577	0.771
145		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0646 U	0.0440 U
146		4.60 J	9.76 J	3.44	3.70 J	3.90	6.01 J
147	147 + 149	21.3 C	48.8 C	15.5 C	14.3 C	14.1 C	22.0 C
148		0.0860 EMPC	0.100	0.0466 U	0.0710 EMPC	0.0815 U	0.0760 EMPC
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.0425 U	0.0970	0.0490 EMPC	0.0490 U	0.0619 U	0.0470
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0571 U	0.0440 U
153	153 + 168	32.8 C	63.5 C	22.9 C	25.6 C	20.1 C	47.0 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0507 U	0.0440 U
156	156 + 157	3.19 C	8.50 C	2.42 C	2.40 C	2.25 C	3.12 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		2.47	6.86	1.99	1.91	1.69	2.56
159		0.303	0.614	0.184 EMPC	0.211	0.250 EMPC	0.203
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.0533 U	0.0885 U	0.0466 U	0.0490 U	0.0449 U	0.0440 U
162		0.121 EMPC	0.214	0.0720	0.0950 EMPC	0.102	0.116
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		1.63	4.32	1.21	1.22	1.25	1.32
165		0.0610 U	0.101 U	0.0533 U	0.0490 U	0.0519 U	0.0440 U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		1.46	3.20	1.10 U	1.01 U	0.918	1.86
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.0811 U	0.179 U	0.0711 U	0.0891 U	0.0860 EMPC	0.0951 U
170		5.72	10.9	4.58	3.68	3.58	3.83
171	171 + 173	2.16 C	4.41 C	1.84 C	1.59 C	1.60 C	1.92 C
172		1.13	1.86	0.864	0.733	0.837	0.730
173	171 + 173	C171	C171	C171	C171	C171	C171
174		5.45	10.6	4.36	3.72	3.89	3.62
175		0.284	0.519	0.233	0.204 EMPC	0.170 EMPC	0.212 EMPC
176		0.842	1.54	0.646	0.605	0.650	0.718
177		5.30	8.81	3.94	3.66	3.94	4.73
178		2.10	3.48	1.66	1.33	1.42	1.93
179		3.49	5.98	2.82	2.46	2.34	3.12
180	180 + 193	14.0 C	24.5 C	11.0 C	9.20 C	9.03 C	11.3 C
181		0.0820	0.191 EMPC	0.0570 EMPC	0.0610 EMPC	0.0674 U	0.0910 EMPC
182		0.0580 U	0.143 U	0.0540 U	0.0530 U	0.0634 U	0.0710 U
183	183 + 185	4.98 C	9.01 C	3.87 C	3.40 C	3.36 C	4.70 C
184		0.0840 EMPC	0.0650	0.0466 U	0.0490 U	0.0471 U	0.0510 EMPC
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0509 U	0.0440 U
187		13.6	22.0	9.79	9.27	9.00	13.2
188		0.0425 U	0.0660 U	0.0466 U	0.0490 U	0.0449 U	0.0440 U
189		0.357 EMPC	0.573	0.248 EMPC	0.237	0.197	0.188
190		1.90	3.01	1.48	1.21	1.23	1.69
191		0.224	0.457	0.223 EMPC	0.155 EMPC	0.158	0.180
192		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0578 U	0.0440 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		3.20	5.11	3.05	2.32	2.44	2.33
195		1.45	2.30	1.33	1.17	1.20	1.24
196		1.74	2.87	1.47	1.19	1.23	1.28
197	197 + 200	0.447 C J	0.572 C J	0.474 C EMPC	0.350 C J	0.442 C	0.426 C J
198	198 + 199	5.26 C	8.78 C	5.19 C	3.27 C	3.66 C	3.25 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		0.642	1.20	0.639	0.428	0.559	0.568
202		1.60	2.59	1.60	1.07	1.10	1.39
203		3.96	6.34	3.71	2.61	2.50	3.19
204		0.0425 U	0.0455 U	0.0466 U	0.0490 U	0.0629 U	0.0440 U
205		0.242	0.347	0.197	0.172 EMPC	0.156	0.194 EMPC
206		4.59	7.21	4.28	2.85	3.21	2.71
207		0.601	0.938	0.517	0.445	0.339	0.416
208		1.85	2.50	1.59	1.13	1.16	1.04
209		6.12	7.86	4.05	3.47	3.42	3.33

**Total PCBs as Congeners in ug/kg, dry weight**

Total PCBs as Congeners (full EMPC/full SDL)	0.587 J	1.20 J	0.408 J	0.405 J	0.383 J	0.592 J
Total PCBs as Congeners (KM-based)	0.585 J	1.20 J	0.405 J	0.402 J	0.378 J	0.591 J
Total PCBs as Congeners (KM-based, capped)	0.585 J	1.20 J	0.405 J	0.402 J	0.378 J	0.591 J

**Notes:**

C = Concent

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P39 08022739 SD 2/27/2008	Reference P40 08022740 SD 2/27/2008	Reference P41 08022741 SD 2/27/2008	Reference P42 08022742 SD 2/27/2008	Reference P55 08030635 SD 3/6/2008	Reference P66 08030636 SD 3/6/2008	Reference P87 08030637 SD 3/6/2008	Downstream P46 08031046 SD 3/10/2008
Individual Congeners in pg/g (ng/kg), dry weight									
1		0.144:U	0.233:U	0.276:U	0.165:U	0.270:U	0.192:U	0.189:U	0.155:EMPC
2		1.13	1.63	1.73	0.614:	3.93	2.99	2.29	0.263:J
3		0.261:EMPC	0.372:EMPC	0.238	0.193:EMPC	0.361	0.252	0.246	0.186:J
4		0.274:EMPC	0.629	0.506:EMPC	0.302:EMPC	0.655	0.336	0.318	0.531:UJ
5		0.120:U	0.107:U	0.125:U	0.113:U	0.107:UJ	0.0815:U	0.0791:U	0.268:UJ
6		0.154	0.231:EMPC	0.224	0.123:EMPC	0.306:J	0.195	0.164:EMPC	0.247:UJ
7		0.112:U	0.124:EMPC	0.114:U	0.103:U	0.0973:UJ	0.123	0.134:EMPC	0.255:UJ
8		0.543	0.771	1.05	0.436:	1.14:J	0.747	0.686	0.321:J
9		0.107:U	0.0948:U	0.110:U	0.0986:U	0.112:EMPC	0.0714:U	0.0694:U	0.246:UJ
10		0.109:U	0.0961:U	0.113:U	0.102:U	0.0962:UJ	0.0736:U	0.0715:U	0.254:UJ
11		51.1	100	56.1	32.1:	131:J	46.6	49.1	18.1:J
12	12 + 13	0.127:C U	0.112:C U	0.118:C U	0.106:C U	0.100:C UJ	0.449:C	0.535:C EMPC	0.259:C UJ
13	12 + 13	C12	C12	C12	C12	C12	C12	C12	C12
14		0.116:U	0.103:U	0.114:U	0.102:U	0.0965:UJ	0.0738:U	0.0716:U	0.246:UJ
15		1.55	1.91	1.74	0.924:	1.86	1.41	1.56	0.286:UJ
16		0.284:U	0.815	0.498	0.356:U	1.04	0.458:EMPC	0.711	0.201:EMPC
17		0.343	0.750	0.466:EMPC	0.351:	0.975	0.505:EMPC	0.648	0.202:J
18	18 + 30	0.727:C U	1.97:C	1.16:C	0.655:C U	2.52:C	1.11:C	1.49:C	0.415:C EMPC
19		0.0720	0.180	0.139	0.105:EMPC	0.225	0.150	0.184:EMPC	0.107:UJ
20	20 + 28	2.90:C	4.11:C	3.23:C	1.97:C	5.85:C	3.52:C	4.13:C	1.01:C EMPC
21	21 + 33	0.811:C	1.18:C	0.955:C	0.644:C	2.05:C	1.07:C	1.28:C	0.360:C J
22		0.889	1.64	1.16	0.670:	2.15	1.04	1.32	0.366:EMPC
23		0.0474:U	0.0475:U	0.0535:U	0.0487:U	0.0619:U	0.0471:U	0.0534:U	0.0516:UJ
24		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0480:EMPC	0.0471:U	0.0457:U	0.0563:UJ
25		0.171:EMPC	0.247	0.160	0.111:	0.320	0.181:EMPC	0.215:EMPC	0.0790:J
26	26 + 29	0.319:C EMPC	0.466:C	0.385:C	0.244:C EMPC	0.718:C	0.417:C	0.498:C	0.152:C J
27		0.0670	0.203:EMPC	0.124:EMPC	0.0890:	0.247	0.107	0.141	0.0527:UJ
28	20 + 28	C20	C20	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18	C18	C18
31		1.81	2.42	1.90	1.17:	3.85	2.23	2.76	0.679:J
32		0.131	0.207	0.199	0.142:EMPC	0.364	0.214	0.346	0.0730:J
33	21 + 33	C21	C21	C21	C21	C21	C21	C21	C21
34		0.0474:U	0.0620:EMPC	0.0513:U	0.0487:U	0.0594:U	0.0471:U	0.0512:U	0.0495:UJ
35		0.283	0.352:EMPC	0.216	0.0487:U	0.453	0.253:EMPC	0.285	0.0890:UJ
36		0.125:EMPC	0.0950:EMPC	0.0730:EMPC	0.0487:U	0.151	0.0620:EMPC	0.0850:EMPC	0.0493:UJ
37		1.35	1.54	1.45	0.938:	2.21	1.35	1.64	0.504:J
38		0.0474:U	0.0475:U	0.0502:U	0.0487:U	0.135	0.0680	0.0740	0.0493:UJ
39		0.0474:U	0.0475:U	0.0493:U	0.0487:U	0.0571:U	0.0471:U	0.0492:U	0.0493:UJ
40	40 + 41 + 71	0.791:C	1.32:C	0.867:C	0.656:C	2.03:C	1.08:C	1.53:C	0.285:C EMPC
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40	C40	C40
42		0.523	1.44	0.737:EMPC	0.416:EMPC	1.83	0.822	1.11	0.200:EMPC
43		0.0660:EMPC	0.0860	0.0630:EMPC	0.0487:U	0.136:EMPC	0.0720:EMPC	0.120	0.0683:UJ
44	44 + 47 + 65	2.44:C	5.89:C	3.11:C	2.07:C	8.10:C	3.54:C	4.43:C	1.14:C J
45	45 + 51	0.205:C	0.360:C	0.241:C	0.200:C	0.575:C	0.344:C EMPC	0.443:C	0.130:C J
46		0.0720	0.100:EMPC	0.0950	0.0680:EMPC	0.223	0.117:EMPC	0.189	0.0660:UJ
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44	C44	C44
48		0.337	0.728	0.442	0.280:	0.972	0.516	0.634	0.132:EMPC
49	49 + 69	1.41:C	2.20:C	1.49:C	0.987:C	3.56:C	2.01:C	2.62:C	0.617:C J
50	50 + 53	0.227:C	0.475:C	0.283:C	0.220:C EMPC	0.687:C	0.316:C	0.353:C	0.143:C EMPC
51	45 + 51	C45	C45	C45	C45	C45	C45	C45	C45
52		3.71	6.06	3.99	2.73:	9.07	4.60	5.84	1.48:J
53	50 + 53	C50	C50	C50	C50	C50	C50	C50	C50
54		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0508:UJ
55		0.0606:U	0.0558:U	0.0992:U	0.0774:U	0.0805:U	0.0714:U	0.107:U	0.0774:UJ
56		1.51	2.30	1.47	1.10:	3.14	1.74:EMPC	2.20	0.479:J
57		0.0577:U	0.0532:U	0.0928:U	0.0724:U	0.0753:U	0.0667:U	0.100:U	0.0723:UJ
58		0.0590:U	0.0544:U	0.0968:U	0.0755:U	0.0785:U	0.0696:U	0.105:U	0.0733:UJ
59	59 + 62 + 75	0.155:C EMPC	0.426:C EMPC	0.211:C	0.178:C	0.616:C	0.289:C	0.393:C	0.118:C EMPC
60		1.10	1.51	1.08	0.734:	2.08	1.15	1.41:EMPC	0.359:J
61	61 + 70 + 74 + 76	7.25:C	9.82:C	6.76:C	4.36:C	14.0:C	8.19:C	10.2:C	2.42:C J
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59	C59	C59
63		0.194	0.266:EMPC	0.164:EMPC	0.103:EMPC	0.335	0.181:EMPC	0.242	0.0681:UJ
64		1.26	1.86	1.30	0.805:	3.06	1.58	2.14	0.504:J
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44	C44	C44
66		4.56	6.89	4.44	2.96:	8.39	4.77	5.64	1.40:J
67		0.0930	0.158	0.0849:U	0.071				

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
 (Page 12 of 14)

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P39 08022739 SD 2/27/2008	Reference P40 08022740 SD 2/27/2008	Reference P41 08022741 SD 2/27/2008	Reference P42 08022742 SD 2/27/2008	Reference P55 08030635 SD 3/6/2008	Reference P66 08030668 SD 3/6/2008	Reference P87 08030687 SD 3/6/2008	Downstream P46 08031046 SD 3/10/2008
128	128 + 166	2.89:C	3.29:C	2.72:C	1.49:C	6.20:C	3.91:C	4.82:C	0.767:C J
129	129 + 138 + 160 + 163	19.4:C	29.7:C	18.0:C	10.7:C	42.3:C	22.6:C	29.8:C	5.95:C J
130		1.14	1.46	1.06	0.620:	2.38	1.46	1.88	0.312:J
131		0.131:EMPC	0.162	0.0780	0.0910:EMPC	0.279:	0.185	0.234	0.0845:UJ
132		3.73	4.40	3.06	1.74:	7.65	4.89	6.15	0.943:J
133		0.309	0.334:EMPC	0.226:EMPC	0.157:	0.525:EMPC	0.362	0.426:EMPC	0.0815:UJ
134	134 + 143	0.499:C	0.724:C	0.392:C	0.278:C	1.10:C	0.664:C EMPC	0.732:C EMPC	0.117:C EMPC
135	135 + 151 + 154	4.23:C	5.98:C	4.03 C	2.28 C	9.54:C	5.80:C	6.80:C	1.34:C J
136		1.05	1.38	0.919	0.475:	2.06	1.49	1.65	0.267:EMPC
137		0.541	0.754	0.454	0.313:	1.37	0.643	0.892	0.156:J
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129	C129
139	139 + 140	0.267:C	0.303:C EMPC	0.216:C	0.136:C	0.516:C	0.274:C EMPC	0.373:C	0.0850:C J
140	139 + 140	C139	C139	C139	C139	C139	C139	C139	C139
141		1.56:EMPC	1.56	1.26:EMPC	0.701:	3.00	1.89	2.58	0.642:J
142		0.0474:U	0.0823:U	0.0558:U	0.0744:U	0.107:U	0.0499:U	0.0757:U	0.0839:UJ
143	134 + 143	C134	C134	C134	C134	C134	C134	C134	C134
144		0.441	0.563	0.399	0.251:EMPC	0.889	0.499	0.685	0.114:EMPC
145		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
146		3.13	4.84	3.15	2.02:	6.32	3.86	4.34	1.26:EMPC
147	147 + 149	10.7:C	16.7:C	10.1:C	6.06:C	23.9:C	13.7:C	16.5:C	3.01:C J
148		0.0474:U	0.0490:EMPC	0.0485:U	0.0487:U	0.0560:EMPC	0.0500:EMPC	0.0520:EMPC	0.0621:UJ
149	147 + 149	C147	C147	C147	C147	C147	C147	C147	C147
150		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135	C135	C135
152		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
153	153 + 168	16.5:C	33.5:C	18.9:C	12.2:C	47.7:C	20.9:C	25.3:C	5.46:C J
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135	C135	C135
155		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
156	156 + 157	1.80:C	2.46:C	1.65:C	0.930:C	3.74:C	2.04:C	2.66:C	0.604:C EMPC
157	156 + 157	C156	C156	C156	C156	C156	C156	C156	C156
158		1.54	1.95	1.26	0.747:EMPC	2.93	1.72	2.25	0.446:J
159		0.197	0.152	0.101	0.0528:U	0.259	0.183	0.228	0.0790:EMPC
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129	C129
161		0.0474:U	0.0559:U	0.0485:U	0.0501:U	0.0719:U	0.0471:U	0.0510:U	0.0578:UJ
162		0.0580:EMPC	0.0626:U	0.0540:EMPC	0.0545:U	0.138	0.0640:EMPC	0.112:EMPC	0.0613:UJ
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129	C129
164		0.891	1.09	0.796	0.419:	1.87	1.24	1.54	0.286:J
165		0.0474:U	0.0645:U	0.0485:U	0.0586:U	0.0841:U	0.0471:U	0.0596:U	0.0651:UJ
166	128 + 166	C128	C128	C128	C128	C128	C128	C128	C128
167		0.761	1.40	0.870	0.482:EMPC	1.97	0.915	1.20	0.320:J
168	153 + 168	C153	C153	C153	C153	C153	C153	C153	C153
169		0.200:U	0.100:U	0.100:U	0.0542:U	0.200:U	0.100:U	0.100:U	0.0697:UJ
170		2.79	3.13	2.55	1.38:	5.22	3.53	5.16	1.03:J
171	171 + 173	1.21:C	1.42:C	1.06:C	0.598:C	2.02:C	1.53:C	2.08:C	0.410:C EMPC
172		0.565	0.550	0.446	0.269:	1.15	0.816:EMPC	1.19	0.329:EMPC
173	171 + 173	C171	C171	C171	C171	C171	C171	C171	C171
174		2.60	2.94	2.38	1.31:	5.52	3.58	5.30	1.12:J
175		0.168	0.187	0.119	0.0790:EMPC	0.283	0.219	0.230:EMPC	0.0600:EMPC
176		0.409	0.526	0.458	0.248:EMPC	0.818	0.566	0.732	0.0930:EMPC
177		2.78	3.38	2.46	1.53:	5.10	3.67	4.55	0.830:J
178		1.09	1.37	0.918	0.567:	2.22	1.52	1.86	0.449:J
179		1.82	2.17	1.59	0.931:	3.45	2.41	3.01	0.523:J
180	180 + 193	7.12:C	9.27:C	6.75:C	3.99:C	15.2:C	9.26:C	13.1:C	2.87:C J
181		0.0474:U	0.0620:EMPC	0.0485:U	0.0487:U	0.0820:EMPC	0.0471:U	0.0950	0.0521:UJ
182		0.0480:EMPC	0.0540	0.0485:U	0.0487:U	0.0840:EMPC	0.0471:U	0.0990:EMPC	0.0493:UJ
183	183 + 185	2.56:C	3.61:C	2.48:C	1.50:C	5.44:C	3.37:C	4.71:C	0.947:C J
184		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
185	183 + 185	C183	C183	C183	C183	C183	C183	C183	C183
186		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
187		6.87	9.60	6.93	4.00:	15.5	9.63	12.6	2.94:J
188		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
189		0.159:EMPC	0.181	0.132	0.0720:	0.250	0.158	0.243	0.0733:UJ
190		0.970	1.29	0.969	0.545:	2.02	1.25	1.60	0.301:EMPC
191		0.140	0.192	0.137:EMPC	0.0540:EMPC	0.285	0.164:EMPC	0.217	0.0493:UJ
192		0.0474:U	0.0475:U	0.0485:U	0.0487:U	0.0437:U	0.0471:U	0.0457:U	0.0493:UJ
193	180 + 193	C180	C180	C180	C180	C180	C180	C180	C180
194		1.90	1.82	1.40	0.778:EMPC	3.15			

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Downstream P47 08031047SD 3/10/2008	Downstream P48 08031048SD 3/10/2008	Downstream P49 08031049SD 3/10/2008	Downstream P50 08031050SD 3/11/2008	Downstream P51 08031051SD 3/11/2008	Forebay - Goose Island P10 090427110S D 4/27/2009	Forebay - Goose Island P11 090429111S D 4/29/2009
Individual Congeners in pg/g (ng/kg), dry weight								
1		0.187:J	0.226:J	1.13:J	0.276:J	0.118:EMPC	0.309:EMPC	0.339:
2		0.406:J	0.439:J	0.411:J	5.39:J	0.335:EMPC	22.8:	27.2:
3		0.186:J	0.155:J	2.67:J	0.319:J	0.148:EMPC	1.02:	1.06:
4		0.429:J	0.497:J	2.31:J	0.737:J	0.344:UJ	0.856:EMPC	0.862:
5		0.155:UJ	0.205:UJ	0.257:UJ	0.147:UJ	0.201:UJ	0.289:U	0.232:U
6		0.210:J	0.188:UJ	0.237:UJ	0.436:J	0.185:UJ	0.565:	0.564:EMPC
7		0.148:UJ	0.195:UJ	0.245:UJ	0.140:UJ	0.191:UJ	0.252:U	0.202:U
8		0.938:J	0.738:J	1.01:J	2.25:J	0.493:J	2.41:	2.79:
9		0.142:UJ	0.187:UJ	0.236:UJ	0.135:UJ	0.184:UJ	0.257:U	0.206:U
10		0.147:UJ	0.194:UJ	0.244:UJ	0.139:UJ	0.190:UJ	0.250:U	0.201:U
11		27.2:J	27.7:J	25.9:J	52.4:J	32.9:J	91.8:	101:
12	12 + 13	0.150:C UJ	0.198:C UJ	0.249:C UJ	0.478:C J	0.194:C UJ	1.51:C	1.42:C EMPC
13	12 + 13	C12	C12	C12	C12	C12	C12	C12
14		0.142:UJ	0.188:UJ	0.236:UJ	0.135:UJ	0.184:UJ	0.251:U	0.202:U
15		1.15:J	1.51:J	4.98:J	3.36:J	0.685:J	5.52:EMPC	7.13:
16		0.496:J	0.347:EMPC	0.995:J	1.91:J	0.399:J	1.85:	1.77:
17		0.605:J	0.361:J	1.25:J	1.91:J	0.390:J	1.93:	2.00:
18	18 + 30	1.08:C J	0.981:C J	2.51:C J	4.34:C	0.832:C J	4.40:C	4.40:C
19		0.182:EMPC	0.212:J	2.66:J	0.443:J	0.121:UJ	0.395:	0.385:
20	20 + 28	2.43:C J	2.80:C J	9.28:C J	11.4:C J	1.80:C J	15.2:C	17.1:C
21	21 + 33	1.07:C J	0.751:C J	3.81:C J	3.64:C J	0.523:C J	4.83:C	5.60:C
22		0.802:J	1.02:J	3.07:J	3.57:J	0.604:J	4.60:	5.08:
23		0.0501:UJ	0.0492:UJ	2.17:J	0.0751:UJ	0.0691:UJ	0.104:U	0.0716:U
24		0.0503:UJ	0.0571:UJ	0.0912:UJ	0.0800:J	0.0801:UJ	0.0760:EMPC	0.0474:U
25		0.146:J	0.135:J	0.565:J	0.652:J	0.108:J	0.807:	0.939:
26	26 + 29	0.331:C J	0.372:C J	1.30:C J	1.39:C J	0.224:C J	1.70:C	1.88:C
27		0.0840:J	0.0870:J	0.156:J	0.375:J	0.0750:U	0.382:	0.419:
28	20 + 28	C20	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18	C18
31		1.72:J	1.77:J	7.67:J	7.66:J	1.25:J	9.39:	10.5:
32		0.329:J	0.290:J	0.794:J	0.964:J	0.139:J	0.93:	0.929:
33	21 + 33	C21	C21	C21	C21	C21	C21	C21
34		0.0501:UJ	0.0492:UJ	1.91:J	0.0721:UJ	0.0663:UJ	0.102:U	0.103:EMPC
35		0.113:EMPC	0.162:J	0.167:EMPC	0.259:EMPC	0.118:EMPC	0.533:EMPC	0.594:
36		0.0501:U	0.0492:UJ	0.101:UJ	0.0690:EMPC	0.0628:UJ	0.152:	0.183:EMPC
37		1.04:J	1.23:J	4.29:J	3.96:J	0.819:J	5.85:	7.23:
38		0.0501:UJ	0.0492:UJ	0.104:UJ	0.0705:UJ	0.0649:UJ	0.0946:U	0.0910:
39		0.0501:UJ	0.0492:UJ	0.102:UJ	0.0693:UJ	0.0638:UJ	0.0939:U	0.117:EMPC
40	40 + 41 + 71	0.659:C J	0.665:C J	3.77:C J	4.64:C J	0.901:C J	5.92:C	6.31:C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40	C40
42		0.514:EMPC	0.378:J	1.94:J	2.82:J	0.522:EMPC	3.75:	3.67:
43		0.0507:UJ	0.0547:UJ	0.316:EMPC	0.379:J	0.0890:U	0.301:	0.474:
44	44 + 47 + 65	2.20:C J	1.80:C J	7.04:C J	12.2:C J	2.59:C J	16.9:C	16.1:C
45	45 + 51	0.260:C EMPC	0.272:C J	1.22:C J	1.51:C J	0.282:C J	1.67:C	1.83:C
46		0.0800:EMPC	0.0990:J	0.386:J	0.515:J	0.0860:UJ	0.637:EMPC	0.698:
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44	C44
48		0.313:J	0.299:J	1.74:EMPC	1.65:J	0.314:EMPC	2.40:	2.42:
49	49 + 69	1.31:C	1.15:C J	5.27:C J	8.71:C J	1.43:C J	9.67:C	10.7:C
50	50 + 53	0.253:C	0.194:C J	1.10:C EMPC	1.50:C J	0.215:C EMPC	1.67:C	1.50:C
51	45 + 51	C45	C45	C45	C45	C45	C45	C45
52		4.19:J	2.84:J	11.1:J	20.3:J	3.57:J	21.6:	22.5:
53	50 + 53	C50	C50	C50	C50	C50	C50	C50
54		0.0501:UJ	0.0492:UJ	2.28:J	0.0473:UJ	0.0563:UJ	0.0677:U	0.0661:U
55		0.0643:UJ	0.0492:UJ	0.192:EMPC	0.192:EMPC	0.0808:UJ	0.124:U	0.117:U
56		1.02:J	0.944:J	4.57:J	5.85:J	1.14:J	6.87:	8.25:
57		0.0600:UJ	0.0492:UJ	0.0635:UJ	0.0762:UJ	0.0754:UJ	0.120:U	0.113:U
58		0.0609:UJ	0.0492:UJ	0.0644:UJ	0.0810:EMPC	0.0765:UJ	0.120:U	0.113:U
59	59 + 62 + 75	0.187:C J	0.179:C EMPC	0.831:C J	1.06:C J	0.203:C J	1.61:C	1.50:C
60		0.847:J	0.714:J	2.73:J	3.10:J	0.782:J	4.46:	4.83:
61	61 + 70 + 74 + 76	6.30:C J	4.78:C J	17.1:C J	30.3:C J	5.62:C J	34.6:C	39.7:C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59	C59
63		0.114:J	0.102:J	0.492:J	0.727:J	0.154:J	0.997:	1.18:
64		1.22:J	0.956:J	3.99:J	5.84:J	1.12:	7.06:	7.58:
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44	C44
66		3.46:J	2.73:J	10.1:J	17.8:J	3.33:J	21.0:	24.8:
67		0.0830:J	0.0600:J	0.250:J	0.346:EMPC	0.0661:UJ	0.469:EMPC	0.519:
68		0.0577:UJ	0.0492:UJ	0.0930:EMPC	0.211:EMPC	0.0725:UJ	0.243:EMPC	0.361:
69	49 + 69	C49	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40	C40
72		0.0575:U	0.0492:UJ	0.0870:J	0.299:EMPC	0.0722:UJ	0.327:	0.406:
73		0.0610:EMPC	0.0492:UJ	0.0699:UJ	0.0473:UJ	0.0567:UJ	0.0731:U	0.0643:U
74	6							

**Table H-8**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Downstream P47 08031047SD 3/10/2008	Downstream P48 08031048SD 3/10/2008	Downstream P49 08031049SD 3/10/2008	Downstream P50 08031150SD 3/11/2008	Downstream P51 08031151SD 3/11/2008	Forebay - Goose Island P10 080427110S D 4/27/2009	Forebay - Goose Island P11 080429111S D 4/29/2009
128	128 + 166	2.55:C J	1.90:C J	3.23:C J	8.95:C J	2.12:C J	14.2:C	17.3 C
129	129 + 138 + 160 + 163	15.8:C J	12.0:C J	21.9:C J	69.1:C J	16.1:C J	91.4:C	97.5 C
130		0.928:EMPC	0.708:J	1.12:J	4.02:J	0.750:EMPC	5.75	6.51
131		0.115:UJ	0.0800:EMPC	0.272:EMPC	0.461:J	0.111:UJ	0.721:EMPC	0.761
132		2.60:J	2.42:J	5.88:J	14.5:J	2.06:EMPC	20.9	25.3
133		0.212:J	0.165:EMPC	0.298:J	0.818:J	0.161:EMPC	1.28	1.54
134	134 + 143	0.433:C EMPC	0.289:C J	0.738:C EMPC	2.14:C J	0.310:C EMPC	3.04:C	3.76 C
135	135 + 151 + 154	3.00:C J	2.63:C J	6.34:C	17.0:C J	2.48:C J	20.8:C	23.5 C
136		0.815:J	0.637:J	1.72:J	4.84:J	0.664:J	6.12	7.28
137		0.667:EMPC	0.481:J	1.04:EMPC	1.96:J	0.454:J	2.52:EMPC	3.22:EMPC
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129
139	139 + 140	0.237:C EMPC	0.114:C EMPC	0.330:C	0.721:C	0.116:C EMPC	1.31:C EMPC	1.33 C
140	139 + 140	C139	C139	C139	C139	C139	C139	C139
141		1.46:J	1.22:J	2.43:J	7.30:J	1.26:J	7.80	10.7
142		0.115:UJ	0.0793:UJ	0.112:UJ	0.114:UJ	0.110:UJ	0.168:U	0.307:U
143	134 + 143	C134	C134	C134	C134	C134	C134	C134
144		0.331:J	0.332:EMPC	0.746:J	1.64:J	0.254:J	1.98	2.66
145		0.0501:UJ	0.0492:UJ	0.0482:UJ	0.0495:UJ	0.0563:UJ	0.0739:U	0.0643:U
146		2.82:J	2.39:J	5.31:J	13.3:J	3.80:J	9.23:J	8.91:J
147	147 + 149	7.67:C J	6.04:C J	13.4:C J	39.2:C J	6.15:C J	54.9:C	60.2:C
148		0.0501:UJ	0.0529:UJ	0.0618:UJ	0.0730:J	0.0669:UJ	0.132	0.0796:U
149	147 + 149	C147	C147	C147	C147	C147	C147	C147
150		0.0501:U	0.0492:UJ	0.0482:UJ	0.0482:UJ	0.0563:UJ	0.100	0.122:EMPC
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135	C135
152		0.0501:UJ	0.0492:UJ	0.0482:UJ	0.0473:UJ	0.0563:UJ	0.0676:U	0.0589:U
153	153 + 168	13.2:C J	9.74:C J	18.3:C	56.8:C J	12.0:C J	87.6:C	78.8:C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135	C135
155		0.0501:UJ	0.0492:UJ	0.350:J	0.0473:UJ	0.0563:UJ	0.0591:U	0.0523:U
156	156 + 157	1.82:C J	1.39:C EMPC	2.89:C	6.25:C J	1.74:C	8.50:C	10.4:C
157	156 + 157	C156	C156	C156	C156	C156	C156	C156
158		1.32:J	1.01:J	2.05:J	5.59:J	1.10:J	6.63	7.51
159		0.0817:UJ	0.144:J	0.319:J	0.987:EMPC	0.118:EMPC	0.753	0.871
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129
161		0.0790:UJ	0.0547:UJ	0.0769:UJ	0.0788:UJ	0.0760:UJ	0.113:U	0.207:U
162		0.0838:UJ	0.0580:UJ	0.0816:UJ	0.226:EMPC	0.0806:UJ	0.284:EMPC	0.250:EMPC
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129
164		0.714:J	0.636:J	1.21:EMPC	3.73:J	0.688:J	5.10	6.01
165		0.0889:UJ	0.0615:UJ	0.0865:UJ	0.0887:UJ	0.0855:UJ	0.130:U	0.238:U
166	128 + 166	C128	C128	C128	C128	C128	C128	C128
167		0.697:J	0.554:J	1.03:J	2.61:J	0.765:J	4.02	3.81
168	153 + 168	C153	C153	C153	C153	C153	C153	C153
169		0.0894:UJ	0.0630:UJ	0.0900:UJ	0.154:UJ	0.0837:UJ	0.241:U	0.250:U
170		1.86:J	2.04:J	5.34:J	12.4:J	2.73:J	13.8	17.1
171	171 + 173	0.715:C J	0.627:C EMPC	1.67:C	4.57:C J	0.806:C	5.36:C	5.94:C
172		0.524:J	0.481:EMPC	1.16:J	2.65:J	0.705:J	2.43	3.08
173	171 + 173	C171	C171	C171	C171	C171	C171	C171
174		1.82:J	1.69:J	4.75:J	13.1:J	2.21:J	13.9	18.8
175		0.0870:EMPC	0.125:EMPC	0.175:J	0.612:J	0.122:EMPC	0.706	0.698:EMPC
176		0.306:EMPC	0.249:J	0.573:J	1.80:J	0.207:EMPC	1.99	2.20
177		1.86:J	1.69:J	4.39:J	10.3:J	2.13:J	11.9	13.8
178		0.667:EMPC	0.601:J	1.33:EMPC	4.16:J	0.998:J	5.05	5.66
179		1.13:J	1.02:J	2.51:J	6.56:J	1.01:J	8.08	9.39
180	180 + 193	4.66:C J	4.94:C J	12.6:C J	31.4:C J	7.15:C J	32.2:C	37.6:C
181		0.0501:UJ	0.0566:UJ	0.122:EMPC	0.160:EMPC	0.0563:UJ	0.164:EMPC	0.139:EMPC
182		0.0501:UJ	0.0522:UJ	0.0980:EMPC	0.117:EMPC	0.0920:EMPC	0.117:U	0.178
183	183 + 185	1.67:C J	1.53:C	3.86:C	10.9:C	1.90:C	11.5:C	13.1:C
184		0.0501:UJ	0.0492:UJ	0.0482:UJ	0.0473:UJ	0.0563:UJ	0.0990:EMPC	0.0741:U
185	183 + 185	C183	C183	C183	C183	C183	C183	C183
186		0.0501:UJ	0.0492:UJ	0.0515:UJ	0.0473:UJ	0.0563:UJ	0.0974:U	0.0791:U
187		4.81:J	4.34:J	10.9:J	29.7:J	7.70:J	31.1:J	29.8:J
188		0.0501:UJ	0.0492:UJ	0.0940:J	0.0473:UJ	0.0563:UJ	0.0892:U	0.0733:U
189		0.115:EMPC	0.0970:J	0.254:J	0.596:J	0.140:J	0.615	0.869
190		0.572:J	0.431:J	1.29:J	3.28:J	0.731:J	4.02	4.11:EMPC
191		0.0690:EMPC	0.0930:J	0.173:EMPC	0.522:J	0.104:EMPC	0.534:EMPC	0.630
192		0.0501:UJ	0.0492:UJ	0.0603:UJ	0.0540:UJ	0.0563:UJ	0.104:U	0.0844:U
193	180 + 193	C180	C180	C180	C180	C180	C180	C180
194		1.11:J	1.17:EMPC	3.01:J	7.52:J	2.04:J	9.07	12.0
195		0.564:J	0.578:EMPC	1.36:J	3.41:J	1.01:J	4.07	4.76
196		0.646:EMPC	0.558:EMPC	1.45:J	3.73:J	0.932:EMPC	4.27	5.18
197	197 + 200	0.339:C J	0.418:C J	0.670:C EMPC	1.46:C J	0.328:C UJ	0.815:C	1.01:C J
198	198 + 199	2.04:C J	1.68:C J	3.57:C EMPC	9.72:C J	2.94:C J	13.4:C	17.1:C
199	198 + 199	C198	C198	C19				

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay P04 08022604TC 2/26/2008	Forebay P07 08021507TC 2/15/2008	Forebay P08 08021508TC 2/15/2008	Forebay P10 08021410TC 2/14/2008	Forebay P11 08021411TC 2/14/2008	Forebay P15 08022115TC 2/21/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		2.74	1.68	2.18	1.41	1.66	1.65
2		3.68	3.01	4.21 J	2.54	3.06	3.31
3		0.763	0.592	0.795	0.435	0.654	0.642; EMPC
4		100	59.5	39.8	32.8	36.8	36.6
5		1.08	0.834	0.805 J	0.629	0.828 J	0.800
6		13.9	8.19	7.02 J	6.50	7.86 J	7.64
7		0.503	0.472	0.358 J	0.290 U	0.347 J	0.379
8		26.5	19.4	18.5 J	14.3	17.6 J	19.7
9		0.799	0.789	0.487 J	0.405	0.539 J	0.510; EMPC
10		0.872	0.669	0.390 J	0.371	0.428; EMPC	0.493
11		8,810	6,810	8,370 J	5,260	6,580 J	6,630
12	12 + 13	0.124 C U	0.212 C U	0.268 C UJ	0.308 C U	0.186 C UJ	0.270 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.167	0.202 U	0.255 UJ	0.293 U	0.178 UJ	0.258 U
15		25.7	18.5	22.9	27.4	26.3	20.1
16		127	63.8	62.4	52.7	58.0	60.9
17		208	85.9	64.1	47.4	50.7	52.3
18	18 + 30	346 C	144 C	131 C	110 C	121 C	123 C
19		24.8	14.3	8.00	6.35	7.40	7.74
20	20 + 28	142 C	80.2 C	86.1 C	62.1 C	77.6 C	79.4 C
21	21 + 33	70.4 C	38.2 C	42.3 C	30.3 C	38.6 C	38.3 C
22		159	84.1	90.5	70.1	84.0	80.3
23		0.115 U	0.0991 U	0.120 U	0.0879 U	0.0830	0.0770
24		0.0417 U	0.758	0.0469 U	0.734; EMPC	0.0473 U	0.0481 U
25		33.9	9.37	7.96	5.64	6.52	6.53
26	26 + 29	34.0 C	15.9 C	15.6 C	11.1 C	14.4 C	14.1 C
27		107	36.2	22.6	15.8	14.4	14.5
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		83.6	47.1	51.4	35.6	48.1	47.6
32		23.3	7.95	5.00	3.75	4.66	4.81
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.351	0.183; EMPC	0.187	0.180	0.191	0.227
35		14.0	12.6	12.7	8.72	11.9	11.9
36		3.86	3.07	3.54	2.45	3.13	3.15
37		58.1	35.1	35.9	27.7	35.3	35.2
38		2.77	1.04	1.15	0.815	0.832; EMPC	0.868
39		7.79	2.26 J	2.44 J	1.79 J	1.98 J	1.91 J
40	40 + 41 + 71	494 C	104 C	83.8 C	63.7 C	68.1 C	64.4 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		982	255	195	133	121	124
43		14.3	5.57	6.01	4.04	4.35	3.83
44	44 + 47 + 65	8,950 C	1,710 C	1,050 C	633 C	456 C	458 C
45	45 + 51	65.2 C	19.9 C	17.5 C	13.4 C	14.7 C	15.6 C
46		7.57	3.13	2.86	2.15	2.69	2.60
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		209	63.1	63.1	45.3	51.1	48.0
49	49 + 69	771 C	140 C	121 C	85.9 C	92.9 C	88.1 C
50	50 + 53	455 C	90.4 C	58.8 C	37.8 C	31.7 C	32.9 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		3,660	501	392	284	279	262
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.452; EMPC	0.219	0.124	0.0750	0.0730	0.135
55		0.968 U	0.340 U	0.339 U	0.241 U	0.421 U	0.395 U
56		697	147	115	89.0	91.0	86.5
57		1.20	0.579	0.566	0.450	0.624	0.496
58		0.910 U	0.328 U	0.328 U	0.233 U	0.406 U	0.381 U
59	59 + 62 + 75	74.6 C	28.8 C	30.1 C	22.8 C	25.5 C	24.7 C
60		178	60.0	58.1	42.5	51.8	51.2
61	61 + 70 + 74 + 76	3,230 C	542 C	446 C	317 C	344 C	319 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		42.6	11.6	10.7	7.84	9.51	8.78
64		368	90.3	82.3	59.8	68.3	67.9
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		1,680	387	337	244	280	258
67		20.9	8.22	8.43	6.66	8.23	7.55
68		5.15	2.48	2.36	1.78	2.36	2.15
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		5.58	2.37	2.33	1.76	2.05	1.99
73		0.0417 U	0.0468 U	0.0469 U	0.0488 U	0.0473 U	0.0481 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		69.0	35.9	34.8	26.9	33.6	33.3
78		0.920 U	0.343 U	0.343 U	0.244 U	0.425 U	0.398 U
79		613	125	78.5	43.8	23.9	24.5
80		0.830 U	0.298 U	0.298 U	0.212 U	0.369 U	0.346 U
81		3.30; EMPC	1.56; EMPC	1.42; EMPC	0.693; EMPC	1.42; EMPC	1.31; EMPC
82		357	43.2	31.9	24.6	19.3	19.1
83	83 + 99	9,730 C	1,520 C	1,210 C	726 C	621 C	579 C
84		834	110	81.8	57.3	52.3	51.2
85	85 + 116 + 117	1,880 C	291 C	242 C	157 C	145 C	142 C
86	86 + 87 + 97 + 108 + 119 + 125	17,400 C	2,880 C	1,860 C	1,070 C	615 C	614 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	1,010 C	129 C	105 C	69.7 C	61.1 C	59.4 C
89		31.7	3.90	2.99	2.17	1.99	2.04
90	90 + 101 + 113	15,900 C	2,200 C	1,790 C	1,100 C	992 C	923 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		1,290	187	162	112	115	109
93	93 + 95 + 98 + 100 + 102	15,200 C	2,410 C	1,620 C	899 C	593 C	603 C
94		10.5	1.53	1.28	0.906	0.943	0.923
95	93 + 95 + 98 + 100 + 102	C93					

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay P04 0802260TC 2/26/2008	Forebay P07 0802150TC 2/15/2008	Forebay P08 08021508TC 2/15/2008	Forebay P10 08021410TC 2/14/2008	Forebay P11 08021411TC 2/14/2008	Forebay P15 08022115TC 2/21/2008
128	128 + 166	1,220°C	231°C	200°C	130°C	128°C	135°C
129	129 + 138 + 160 + 163	30,900°C	5,610°C	4,250°C	2,590°C	2,080°C	2,070°C
130		488	112	96.1	65.3	68.5	69.4
131		87.8	14.5	11.8	7.50	7.00	6.90
132		1,420	265	223	157	152	147
133		80.0	23.5	21.9	14.9	17.9	17.7
134	134 + 143	253°C	50.1°C	43.3°C	28.9°C	29.0°C	29.2°C
135	135 + 151 + 154	1,440°C	343°C	323°C	223°C	258°C	256°C
136		406	67.2	59.2	41.6	41.4	41.3
137		956	164	113	65.6	37.9	37.5
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	183°C	31.9°C	27.6°C	16.5°C	15.5°C	15.3°C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		299	61.6	58.8	43.3	35.9	39.5
142		0.834:U	0.433:U	0.443:U	0.546:U	0.596:U	0.759:U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		204	36.1	33.0	21.7	23.4	22.3
145		2.16	0.288	0.290	0.232	0.108	0.143:EMPC
146		2,310	584	501	327	331	324
147	147 + 149	10,000°C	1,910°C	1,640°C	1,070°C	1,070°C	1,040°C
148		5.32	1.86	1.94	1.42	1.71	1.54
149	147 + 149	C147	C147	C147	C147	C147	C147
150		5.10	1.31	1.38	0.918	1.09	1.01
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		4.02	0.611	0.541	0.349	0.332	0.314
153	153 + 168	61,300°C	14,400°C	10,100°C	5,270°C	3,560°C	3,830°C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		1.06	0.802	0.869:EMPC	0.664	0.894	0.856
156	156 + 157	3,610°C	584°C	405°C	228°C	136°C	133°C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		1,480	264	215	126	115	115
159		5.83	2.11	1.77	1.47	1.85	1.78
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.554:U	0.304:U	0.311:U	0.383:U	0.418:U	0.533:U
162		25.6	5.18	4.23	2.51	2.71	2.92
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		255	46.0	42.1	30.7	32.0	33.2
165		1.63	0.636	0.575	0.439:U	0.587	0.610:U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		3,800	944	566	302	146	157
168	153 + 168	C153	C153	C153	C153	C153	C153
169		16.5:U	5.60:U	4.73:U	3.37:U	3.27:U	3.56:U
170		188	49.4	44.6	32.9	38.9	39.3
171	171 + 173	283°C	88.2°C	79.6°C	55.6°C	62.4°C	66.8°C
172		18.4	6.23	5.91	4.70	5.65	5.45
173	171 + 173	C171	C171	C171	C171	C171	C171
174		129	41.6	39.7	31.6	36.1	37.9
175		28.9	9.62	9.47	6.50	7.84	8.34
176		86.4	31.0	29.8	21.7	25.6	25.8
177		485	196	188	136	164	170
178		179	88.2	88.0	62.9	80.6	82.3
179		245	116	115	84.2	105	105
180	180 + 193	2,720°C	874°C	692°C	491°C	476°C	509°C
181		30.8	5.60	4.57	2.73	2.16	2.34
182		3.27	1.40	1.51	1.19	1.21	1.14
183	183 + 185	865°C	265°C	243°C	171°C	194°C	201°C
184		2.00	1.29	1.43	1.00	1.31	1.38
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0417:U	0.0468:U	0.0469:U	0.0488:U	0.0473:U	0.0481:U
187		1,490	679	671	479	602	617
188		1.86	1.27	1.22	0.917	1.11	1.20
189		10.1	2.22	2.12	1.52	1.71	1.56
190		435	130	114	78.7	79.8	84.1
191		32.2	8.64	7.73	5.50	5.77	6.07
192		0.0417:U	0.0468:U	0.0495:U	0.0488:U	0.0473:U	0.0481:U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		19.5	8.22	8.38	6.54	8.52	7.72
195		54.0	24.7	24.5	18.0	22.2	22.6
196		34.2	13.9	14.0	10.5	12.7	12.4
197	197 + 200	17.0°C	7.61°C	7.75°C	5.70°C	6.96°C	7.31°C
198	198 + 199	61.1°C	29.1°C	28.6°C	22.6°C	28.0°C	27.3°C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		40.6	19.7	19.2	14.2	17.8	18.6
202		101	60.9	61.2	45.2	57.8	58.2
203		324	144	136	98.7	111	116
204		0.0820	0.0740:EMPC	0.0810	0.0930	0.0730:EMPC	0.0530
205		9.52	4.16	4.14	2.98	3.65	3.69
206		30.2	15.7	15.9	11.8	14.7	14.8
207		5.44	3.05	3.05	2.26	2.84	2.77
208		11.7	7.24	7.20	5.51	7.00	7.09
209		13.5	10.8	11.2	8.26	10.8	10.9

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	312:J	65.7:J	51.5:J	30.6:J	26.7:J	26.9:J
Total PCBs as Congeners (KM-based)	312:J	65.7:J	51.5:J	30.7:J	26.7:J	26.9:J
Total PCBs as Congeners (KM-based, capped)	312:J	65.7:J	51.5:J	30.6:J	26.7:J	26.9:J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay P16 08022116TC 2/21/2008	Forebay P17 08022117TC 2/21/2008	Forebay P18 08022118TC 2/21/2008	Forebay P21 08022121TC 2/21/2008	Forebay P05 08031905TC 3/19/2008	Forebay P06 08031806TC 3/18/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		1.32	1.78	1.91	1.80	2.83	4.56
2		3.05	3.56	3.45	3.64	2.78	3.68
3		0.654	0.677	0.634	0.576 EMPC	0.763	0.914
4		36.2	33.1	37.1	38.9	93.7	227
5		0.728	0.740	0.719	0.610	0.956	1.11
6		7.43	7.39	8.01	8.30	9.60	12.9
7		0.297	0.321	0.355	0.296	0.493	1.06
8		16.3	17.5	19.8	17.0	24.0	37.0
9		0.456 EMPC	0.504	0.576	0.444	0.801	1.64
10		0.426	0.408	0.443	0.392	1.02	2.45
11		6,220	6,080	6,840	6,470	7,750	9,620
12	12 + 13	0.225 CU	0.132 CU	0.108 CU	0.150 CU	0.229 CU	0.173 CU
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.214 U	0.128 U	0.127	0.146 U	0.218 U	0.168 U
15		23.3	16.4	17.3	20.4	23.0 J	25.7
16		62.0	63.7	66.0	68.7	77.3	97.0
17		51.9	53.1	55.3	54.0	105	159
18	18 + 30	127 C	127 C	132 C	133 C	193 C	235 C
19		6.67	6.71	7.63	6.96	13.8	40.9
20	20 + 28	74.7 C	75.5 C	77.8 C	69.8 C	97.1 C	115 C
21	21 + 33	35.2 C	37.6 C	41.8 C	34.2 C	46.7 C	56.9 C
22		77.8	82.4	86.6	76.3	107	117
23		0.0860	0.0996 U	0.0820	0.0750	0.219 U	0.175 U
24		0.0484 U	0.723 EMPC	0.0466 U	0.0457 U	0.571	0.0487 U
25		6.13	6.55	6.53	5.80	12.6	15.4
26	26 + 29	13.4 C	13.4 C	14.4 C	13.0 C	18.7 C	23.8 C
27		15.5	14.3	14.5	15.8	42.1	68.1
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		42.7	45.1	48.4	39.3	61.3	76.2
32		4.43	5.03	5.87	4.41	8.09	17.8
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.183	0.215	0.225	0.213	0.259	0.348
35		9.93	9.60	10.4	9.54	14.3	16.5
36		2.84	2.76	2.98	2.75	3.68	4.31
37		30.6	31.8	36.1	32.4	43.0	53.7
38		0.797	0.845	0.887	0.791	1.49	1.53
39		1.85 J	2.06	2.26	1.95	3.32	3.85
40	40 + 41 + 71	64.3 C	66.5 C	77.6 C	63.2 C	114 C	182 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		128	132	141	122	262	341
43		4.33	4.24	4.68	4.15	4.49	10.9
44	44 + 47 + 65	484 C	484 C	504 C	452 C	1,760 C	2,430 C
45	45 + 51	14.2 C	16.7 C	18.0 C	14.8 C	22.2 C	34.2 C
46		2.45	2.77	3.03	2.51	3.71	6.15
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		49.9	54.0	58.0	49.7	72.2	101
49	49 + 69	83.7 C	95.0 C	101 C	83.7 C	171 C	310 C
50	50 + 53	34.1 C	37.4 C	38.3 C	34.2 C	104 C	158 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		261	277	296	261	665	1,320
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0484 U	0.0660	0.0710	0.0580 EMPC	0.175 EMPC	0.544
55		0.488 U	0.424 U	0.496 U	0.449 U	1.08 U	0.575 U
56		80.0	89.6	101	79.6	180	243
57		0.535	0.563	0.600	0.497	0.948 U	0.813
58		0.472 U	0.399 U	0.466 U	0.422 U	1.06 U	0.541 U
59	59 + 62 + 75	26.3 C	26.6 C	28.1 C	26.3 C	35.0 C	43.4 C
60		45.3	49.0	56.2	46.6	76.2	104
61	61 + 70 + 74 + 76	307 C	330 C	358 C	300 C	729 C	1,210 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		8.57	9.25	10.0	8.44	15.1	21.5
64		61.6	69.2	76.2	61.9	110	186
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		249	269	300	253	516	714
67		6.99	8.06	8.39	7.32	11.6	15.0
68		1.94	2.22	2.18	1.76	2.50	3.66
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		1.87	2.13	2.07	1.81	2.61	3.33
73		0.0484 U	0.0469 U	0.0466 U	0.0457 U	0.0495 U	0.0487 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		30.1	30.7	33.9	32.0	41.0	52.3
78		0.493 U	0.403 U	0.471 U	0.427 U	1.02 U	0.547 U
79		22.8	22.8	23.6	22.1	152	160
80		0.429 U	0.363 U	0.425 U	0.385 U	0.903 U	0.493 U
81		1.54 EMPC	1.55 EMPC	1.42 EMPC	1.38 EMPC	2.70 EMPC	1.97 EMPC
82		15.6	18.7	19.0	16.0	57.4	120
83	83 + 99	567 C	583 C	592 C	554 C	1,540 C	2,710 C
84		45.9	52.6	54.2	48.8	123	301
85	85 + 116 + 117	129 C	136 C	143 C	134 C	330 C	591 C
86	86 + 87 + 97 + 108 + 119 + 125	583 C	599 C	600 C	573 C	2,790 C	4,080 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	55.3 C	64.2 C	63.6 C	57.9 C	146 C	303 C
89		1.80	1.98	2.21	1.90	4.63	9.91
90	90 + 101 + 113	899 C	968 C	967 C	927 C	2,310 C	4,200 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		104	114	117	109	207	423
93	93 + 95 + 98 + 100 + 102	605 C	676 C	648 C	591 C	2,390 C	3,930 C
94		0.766	0.894	0.950	0.735	1.68	4.22
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		0.591	0.743	0			

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay P16 0802216TC 2/21/2008	Forebay P17 0802217TC 2/21/2008	Forebay P18 0802118TC 2/12/2008	Forebay P21 0802122TC 2/12/2008	Forebay P05 0803190TC 3/19/2008	Forebay P06 0803180TC 3/18/2008
128	128 + 166	114;C	114;C	122;C	118;C	244;C	416;C
129	129 + 138 + 160 + 163	1,970;C	1,800;C	1,890;C	1,890;C	5,880;C	7,400;C
130		61.2;	57.6;	58.6;	57.4;	125;	176;
131		6.11;	5.92;	5.90;	5.96;	13.3;	27.3;
132		131;	129;	132;	127;	272;	497;
133		16.3;	14.8;	15.3;	14.7;	24.9;	35.1;
134	134 + 143	26.4;C	26.4;C	26.9;C	24.8;C	51.0;C	96.0;C
135	135 + 151 + 154	241;C	246;C	259;C	243;C	362;C	579;C
136		39.3;	44.2;	44.5;	39.3;	71.9;	143;
137		37.3;	28.8;	33.8;	30.6;	163;	237;
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	14.5;C	13.6;C	14.5;C	13.4;C	29.6;C	54.8;C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		33.2;	33.0;	37.5;	33.7;	104;	100;
142		0.745;U	0.588;U	0.589;U	0.754;U	2.04;U	0.910;U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		21.6;	21.0;	23.5;	20.9;	39.9;	69.2;
145		0.0970;EMPC	0.117;	0.116;	0.107;	0.340;	0.686;
146		311;	270;	290;	286;	591;	776;
147	147 + 149	993;C	941;C	1,000;C	962;C	1,920;C	2,760;C
148		1.58;	1.64;	1.74;	1.66;	2.12;	2.99;
149	147 + 149	C147	C147	C147	C147	C147	C147
150		1.05;	1.14;	1.21;	1.06;	1.45;	2.49;
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.325;EMPC	0.357;	0.371;	0.322;	0.702;	1.45;
153	153 + 168	3,740;C	2,980;C	3,160;C	2,950;C	13,300;C	18,100;C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.720;	0.822;EMPC	0.826;	0.732;	1.09;	1.18;
156	156 + 157	128;C	120;C	124;C	121;C	614;C	828;C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		103;	98.8;	104;	103;	259;	397;
159		1.56;	1.49;	1.62;	1.71;	2.58;	2.88;
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.523;U	0.390;U	0.392;U	0.501;U	1.43;U	0.604;U
162		2.06;	2.23;	2.24;	2.20;	4.31;	8.18;
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		27.4;	29.3;	31.3;	29.8;	60.4;	88.6;
165		0.599;U	0.521;	0.580;	0.580;U	1.62;U	0.700;U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		149;	134;	131;	125;	956;	1,180;
168	153 + 168	C153	C153	C153	C153	C153	C153
169		3.53;U	3.40;U	3.66;U	3.62;U	1.73;U	6.60;U
170		32.3;	32.2;	34.7;	34.3;	58.5;	78.4;
171	171 + 173	56.3;C	55.5;C	55.1;C	57.2;C	91.8;C	119;C
172		4.60;	4.53;	5.02;	4.75;	7.22;	8.92;
173	171 + 173	C171	C171	C171	C171	C171	C171
174		31.1;	30.8;	32.9;	32.1;	46.6;	61.2;
175		7.20;	6.90;	7.01;	7.22;	10.6;	13.7;
176		23.3;	21.2;	21.1;	22.2;	31.3;	41.3;
177		148;	146;	141;	151;	217;	266;
178		72.4;	70.3;	70.0;	72.9;	90.9;	118;
179		95.7;	88.2;	86.2;	88.3;	116;	149;
180	180 + 193	489;C	420;C	424;C	433;C	929;C	1,050;C
181		2.13;	1.95;	2.04;	2.07;	5.76;	8.24;
182		0.0484;U	1.18;	1.23;	1.12;	1.55;	2.18;
183	183 + 185	183;C	170;C	175;C	184;C	288;C	343;C
184		1.20;	1.10;	1.05;	1.09;	1.44;	1.67;
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0484;U	0.0469;U	0.0466;U	0.0463;U	0.0929;U	0.0487;U
187		549;	502;	520;	556;	736;	879;
188		1.08;	1.02;	1.06;	1.00;	1.18;	1.64;
189		1.56;	1.67;	1.60;	1.66;	2.77;	4.03;
190		76.5;	68.5;	71.6;	77.5;	142;	162;
191		5.28;	5.26;	5.28;	5.14;	10.7;	12.7;
192		0.0484;U	0.0469;U	0.0466;U	0.0539;U	0.110;U	0.0563;U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		6.83;	7.11;	7.23;	7.74;	10.0;	11.8;
195		19.9;	19.5;	18.5;	19.3;	25.3;	30.9;
196		11.4;	11.9;	11.8;	11.6;	15.2;	18.9;
197	197 + 200	6.44;C	6.39;C	6.30;C	6.09;C	8.14;C	9.58;C
198	198 + 199	24.0;C	25.2;C	25.1;C	23.9;C	31.4;C	38.5;C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		16.4;	16.3;	15.8;	15.6;	19.9;	25.0;
202		52.1;	49.2;	47.4;	49.4;	59.7;	73.6;
203		111;	106;	107;	104;	144;	171;
204		0.0660;EMPC	0.0660;EMPC	0.0670;EMPC	0.0610;EMPC	0.0970;	0.132;EMPC
205		3.36;	3.35;	3.26;	3.22;	4.26;	5.31;
206		13.1;	13.1;	12.5;	12.7;	16.7;	19.7;
207		2.58;	2.71;	2.51;	2.64;	3.29;	3.90;
208		6.10;	6.13;	5.82;	5.95;	7.88;	9.00;
209		9.41;	9.45;	8.11;	8.91;	11.0;	12.7;
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)		25.5;J	24.5;J	25.9;J	24.7;J	65.8;J	95.1;J
Total PCBs as Congeners (KM-based)		25.6;J	24.5;J	25.9;J	24.6;J	65.8;J	95.1;J
Total PCBs as Congeners (KM-based, capped)		25.5;J	24.5;J	25.9;J	24.6;J	65.8;J	95.1;J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay P13 08031713TC 3/17/2008	Forebay P14 08031814TC 3/18/2008	Forebay P65 08022965TC 2/29/2008	Forebay P88 08031788TC 3/17/2008	Forebay P89 08031789TC 3/17/2008	Reference P22 08030522TC 3/5/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		1.66	1.87	1.87	1.69	1.85	1.73
2		3.32	3.72	3.48	3.25	3.31	5.27
3		0.716 U	0.777 U	0.846 U	0.755 U	0.723 U	0.699 U
4		42.9	44.6	46.3	39.3	34.7	37.7
5		0.940	1.16	1.14	1.08	0.946	1.09
6		11.4	10.9	11.4	9.06	8.02	9.53
7		0.443	0.460	0.474	0.446	0.567	0.447
8		24.8	25.0	25.6	23.4	22.3	20.3
9		0.647	0.752	0.714	0.668	0.648 EMPC	0.583
10		0.596	0.729	0.664	0.674	0.647	0.620
11		7,780	7,370	8,450	8,120	7,760	8,040
12	12 + 13	51.1 C	59.3 C	71.7 C	59.9 C EMPC	59.1 C	40.7 C
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.174	0.240 EMPC	0.201	0.182	0.194 EMPC	0.193 EMPC
15		16.2	15.3	18.7	14.2	13.5	12.8
16		89.6	86.3	96.8	81.9	71.1	84.7
17		80.6	76.3	81.1	69.7	62.4	64.4
18	18 + 30	195 C	188 C	195 C	164 C	146 C	164 C
19		7.78	8.22	8.42	8.38	8.24	7.95
20	20 + 28	102 C	104 C	99.8 C	89.2 C	86.6 C	83.8 C
21	21 + 33	47.3 C	48.6 C	49.1 C	44.1 C	43.4 C	41.8 C
22		109	105	97.9	87.7	93.1	
23		0.121 EMPC	0.127 EMPC	0.104 EMPC	0.0960 EMPC	0.118 EMPC	0.127 EMPC
24		1.50	0.956	1.25	1.14	1.05	1.01
25		9.05	8.79	9.06	8.33	7.62	7.56
26	26 + 29	18.3 C	18.2 C	19.2 C	17.1 C	16.7 C	16.7 C
27		21.1	20.6	20.9	18.0	16.4	17.4
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		58.6	60.7	61.3	55.4	57.4	49.2
32		7.07	7.58	6.82	5.90	6.00	5.55
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.294	0.295	0.273	0.286 EMPC	0.258 EMPC	0.307
35		12.4	13.3	13.6	14.4	13.7	13.2
36		3.60	3.83	4.07	3.80	3.55	3.58
37		39.0	41.7	45.1	42.5	39.9	38.5
38		1.12	1.30	1.13	1.25 EMPC	1.09 EMPC	1.32
39		2.44	2.66	2.59	2.52	2.34	2.47
40	40 + 41 + 71	81.1 C	80.6 C	87.8 C	79.8 C	77.5 C	76.3 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		184	179	163	154	149	148
43		3.92	3.72	4.21	3.47	3.65	3.19
44	44 + 47 + 65	665 C	647 C	610 C	592 C	558 C	556 C
45	45 + 51	21.4 C	20.6 C	22.4 C	20.2 C	19.8 C	18.3 C
46		3.53	3.43	3.76	3.55	3.72	3.18
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		69.5	67.0	72.5	63.1	60.0	59.6
49	49 + 69	117 C	115 C	132 C	122 C	122 C	104 C
50	50 + 53	51.4 C	47.9 C	49.2 C	45.1 C	42.1 C	41.7 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		347	339	376	356	342	319
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0860	0.0600 EMPC	0.136	0.126 EMPC	0.118 EMPC	0.109 EMPC
55		2.38 J	4.37	4.43	4.02 EMPC	5.20	3.08
56		106	115	106	108	100	108
57		0.839	0.912 EMPC	1.01	0.737	0.853	0.964
58		0.929	1.02	1.22	1.30	1.23	0.980
59	59 + 62 + 75	32.1 C	31.5 C	33.7 C	30.0 C	26.9 C	28.8 C
60		57.9	60.6	65.3	63.1	61.4	56.9
61	61 + 70 + 74 + 76	425 C	446 C	459 C	444 C	432 C	395 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		11.9	12.4	12.9	12.1	12.0	10.7
64		83.3	83.6	92.3	88.0	87.4	77.7
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		347	361	362	347	328	319
67		11.4	11.6	11.6	10.6	10.0	10.0
68		2.77	2.78	3.26	2.87	2.58	2.67
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		2.47	2.62	3.00	2.69	2.39	2.65
73		0.0481 U	0.0488 U	0.0492 U	0.0471 U	0.0495 U	0.0477 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		37.5	38.8	42.0	39.8	35.9	37.8
78		0.404 U	0.428 U	0.309 U	0.319 U	0.325 U	0.308 U
79		25.0	29.5	26.1	29.1	27.3	26.8
80		0.356 U	0.377 U	0.278 U	0.287 U	0.293 U	0.277 U
81		1.94	2.08 EMPC	2.46	2.01	2.38	1.89
82		17.9	20.1	20.5	20.9	20.6	19.0
83	83 + 99	709 C	729 C	771 C	764 C	701 C	683 C
84		60.5	61.6	66.6	68.2	65.3	60.7
85	85 + 116 + 117	163 C	173 C	186 C	189 C	172 C	169 C
86	86 + 87 + 97 + 108 + 119 + 125	777 C	803 C	744 C	792 C	753 C	694 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	76.1 C	75.6 C	83.9 C	81.2 C	76.1 C	69.8 C
89		2.36	2.25	2.51	2.47	2.55	2.14
90	90 + 101 + 113	1,160 C	1,190 C	1,250 C	1,240 C	1,130 C	1,110 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		132	135	146	140	134	129
93	93 + 95 + 98 + 100 + 102	835 C	811 C	768 C	796 C	753 C	710 C
94		1.10	1.09	1.20	1.22	1.14	1.09
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		0.923	0.857	0.944	0.949	0.998	0.772

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Forebay P13 08031713TC 3/17/2008	Forebay P14 08031814TC 3/18/2008	Forebay P65 08022965TC 2/29/2008	Forebay P88 08031788TC 3/17/2008	Forebay P89 08031789TC 3/17/2008	Reference P22 08030522TC 3/5/2008
128	128 + 166	145°C	157°C	170°C	164°C	151°C	158°C
129	129 + 138 + 160 + 163	2,550°C	2,740°C	2,610°C	2,650°C	2,430°C	2,410°C
130		78.6	84.0	85.7	80.9	73.9	75.4
131		7.82	8.42	8.56	8.61	7.99	7.87
132		170	181	182	191	173	175
133		19.9	21.2	23.6	21.6	19.8	20.5
134	134 + 143	32.0°C	36.3°C	36.3°C	35.3°C	32.4°C	34.2°C
135	135 + 151 + 154	318°C	333°C	353°C	347°C	322°C	320°C
136		53.8	55.7	58.9	60.3	55.4	52.5
137		43.6 EMPC	44.5	42.5	47.8	41.9	38.3
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	18.5°C	19.8°C	19.8°C	20.0°C	18.1°C	17.8°C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		37.3	38.5	34.9	40.6	37.4	32.3
142		0.450 U	0.594 U	0.401 U	0.378 U	0.280 U	0.437 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		29.5	30.3	32.2	32.1	29.6	28.8
145		0.171 EMPC	0.174	0.218 EMPC	0.170 EMPC	0.207 EMPC	0.143
146		402	434	412	401	377	367
147	147 + 149	1,270°C	1,330°C	1,340°C	1,340°C	1,220°C	1,230°C
148		2.13	2.20 EMPC	2.42	2.19	2.00	2.09
149	147 + 149	C147	C147	C147	C147	C147	C147
150		1.44	1.48	1.63	1.51	1.38	1.31
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.459	0.405	0.471 EMPC	0.477	0.474	0.449
153	153 + 168	5,180°C	5,530°C	4,140°C	4,590°C	4,620°C	4,070°C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.952	1.14	1.18 EMPC	1.03	0.919	1.01
156	156 + 157	157°C	171°C	156°C	168°C	158°C	138°C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		125	134	141	139	128	129
159		1.91	1.98	2.52	2.47	2.40 EMPC	2.36
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.305 U	0.403 U	0.284 U	0.267 U	0.198 U	0.309 U
162		2.43	3.00	3.31	2.89	2.66 EMPC	3.10
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		36.8	41.3	42.7	42.1	41.3	41.3
165		0.675 EMPC	0.596	0.750	0.594	0.601	0.647
166	128 + 166	C128	C128	C128	C128	C128	C128
167		209	213	154	185	201	149
168	153 + 168	C153	C153	C153	C153	C153	C153
169		1.35 U	1.09 U	0.940 U	0.901 U	1.10 U	0.809 U
170		38.8	43.3	44.5	45.4	40.8	42.6
171	171 + 173	66.7°C	72.5°C	73.6°C	71.2°C	63.9°C	70.1°C
172		5.74	6.00	6.35	6.37	6.01	6.14
173	171 + 173	C171	C171	C171	C171	C171	C171
174		39.1	40.7	44.0	46.2	42.2	42.4
175		8.71	9.35	9.56	9.44	8.02	8.78
176		27.8	29.4	30.9	30.1	26.3	27.5
177		177	189	203	189	166	184
178		87.2	93.0	97.5	89.8	78.9	87.8
179		114	119	128	122	108	115
180	180 + 193	657°C	696°C	508°C	558°C	540°C	512°C
181		2.45	2.64	2.42	2.57	2.40	2.45
182		1.01	1.03	0.916	0.989	0.901	0.938 EMPC
183	183 + 185	225°C	242°C	227°C	229°C	209°C	214°C
184		1.47	1.52	1.69	1.44	1.44	1.43
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0481 U	0.0713 U	0.0492 U	0.0498 U	0.0495 U	0.0477 U
187		656	709	700	672	615	656
188		1.25	1.36	1.39	1.36	1.21	1.35
189		1.66	2.03	2.21	2.18	1.81	1.83
190		95.5	102	90.3	94.1	85.6	90.1
191		6.11	6.48	6.27	6.56	5.92	6.18
192		0.0481 U	0.0807 U	0.0492 U	0.0560 U	0.0495 U	0.0477 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		8.78	9.54	10.7	10.3	9.10	8.77
195		24.7	26.7	27.8	26.5	23.7	26.3
196		14.4	14.9	15.8	16.0	13.9	14.8
197	197 + 200	7.73°C	8.23°C	9.13°C	8.90°C	7.85°C	8.37°C
198	198 + 199	31.6°C	32.4°C	35.1°C	33.5°C	29.3°C	32.3°C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		19.6	21.6	21.9	21.4	18.8	19.9
202		62.8	66.4	69.5	60.8	54.4	62.4
203		155	159	123	131	129	130
204		0.0530 EMPC	0.0820 EMPC	0.132 EMPC	0.0790	0.0890	0.0940
205		3.97	4.34	4.66	4.30	3.78	4.12
206		16.7	17.2	18.3	16.1	14.6	17.0
207		3.24	3.46	3.56	3.38	2.94	3.55
208		7.78	8.28	8.63	7.69	6.97	8.18
209		12.0	12.6	12.8	10.4	10.3	11.2

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	33.2 J	34.0 J	33.1 J	33.3 J	31.7 J	30.9 J
Total PCBs as Congeners (KM-based)	33.1 J	34.0 J	33.1 J	33.2 J	31.6 J	30.8 J
Total PCBs as Congeners (KM-based, capped)	33.1 J	34.0 J	33.1 J	33.2 J	31.6 J	30.8 J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference P24 08030524TC 3/5/2008	Reference P27 08030427TC 3/4/2008	Reference P26 08030426TC 3/4/2008	Reference P28 08030428TC 3/4/2008	Reference P29 08022229TC 2/22/2008	Reference P34 08022534TC 2/25/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		1.41	1.59	1.41	1.57	3.03	2.71
2		3.57	4.31	3.24	3.59	7.28	5.79
3		0.686 U	0.675 U	0.584 U	0.687 U	0.920	0.853 U
4		35.8	33.3	31.8	40.3	126	142
5		0.917	0.399 U	0.236 U	1.01	1.78	1.82
6		9.05	10.9	9.35	9.62	35.3	39.9
7		0.544	0.376 U	0.222 U	0.380	0.810	0.905
8		19.1	24.6	22.0	19.3	46.9	49.6
9		0.552	0.359 U	0.212 U	0.488	1.44	1.50
10		0.528	0.331 U	0.195 U	0.544	1.56	1.62
11		6.830	8.520	7.970	7.030	6,960	6,720
12	12 + 13	46.1 C EMPC	0.401 C U	0.237 C U	33.1 C	31.7 C	32.8 C
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.129	0.369 U	0.218 U	0.152 EMPC	0.170	0.126 EMPC
15		15.0	11.0	8.81	14.8	19.8	21.8
16		90.0	88.4	88.0	99.2	187	208
17		68.0	78.3	73.8	74.1	165	197
18	18 + 30	174 C	193 C	184 C	192 C	406 C	457 C
19		6.96	8.54	8.48	7.71	18.2	19.2
20	20 + 28	81.9 C	101 C	99.2 C	86.0 C	154 C	163 C
21	21 + 33	40.1 C	45.8 C	46.5 C	40.8 C	95.9 C	103 C
22		91.3	103	105	101	170	191
23		0.101	0.183 U	0.157 U	0.0990 EMPC	0.127 EMPC	0.136
24		1.11	0.946	1.08	0.986	2.21	1.84
25		7.13	8.61	8.64	7.50	15.3	17.0
26	26 + 29	15.3 C	18.2 C	18.4 C	16.3 C	35.0 C	37.5 C
27		18.4	21.9	20.4	20.7	38.4	43.6
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		46.8	60.4	60.3	46.9	95.4	100
32		5.06	6.10	6.19	5.41	19.6	22.3
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.252	0.349	0.246 EMPC	0.228	0.419	0.436
35		11.1	13.9	13.2	11.9	12.4	11.6
36		3.17	3.96	3.97	3.25	3.27	3.08
37		35.2	31.5	30.6	36.8	56.3	58.2
38		1.12	1.24	1.20	1.20	1.44	1.53
39		2.26	2.92	2.79 EMPC	2.42	3.86	4.37
40	40 + 41 + 71	74.7 C	82.5 C	84.9 C	79.1 C	138 C	150 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		156	180	168	179	235	261
43		3.61	0.122 U	0.0799 U	3.48	6.01	6.02
44	44 + 47 + 65	591 C	648 C	630 C	680 C	784 C	818 C
45	45 + 51	20.2 C	20.3 C	23.3 C	20.9 C	37.4 C	41.4 C
46		3.14	3.47	3.82	3.23	5.74	6.16
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		63.7	65.1	71.6	66.9	111	126
49	49 + 69	109 C	112 C	124 C	108 C	159 C	170 C
50	50 + 53	47.7 C	48.7 C	52.6 C	52.6 C	75.0 C	81.9 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		327	339	381	337	431	442
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0890 EMPC	0.0789 U	0.0485 U	0.108	0.138	0.171
55		4.40	0.353 U	0.192 U	3.34	4.10	5.26
56		93.8	111	95.5	106	106	108
57		0.820 EMPC	1.01	0.862	0.643	1.24	1.08
58		1.19 EMPC	0.364 U	0.198 U	1.35	1.14	1.12 EMPC
59	59 + 62 + 75	30.9 C	32.7 C	35.2 C	33.0 C	46.2 C	49.7 C
60		52.2	65.4	56.5	54.2	58.9	60.2
61	61 + 70 + 74 + 76	366 C	426 C	382 C	381 C	445 C	454 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		10.5	11.6	10.9	10.8	13.3	13.7
64		77.0	0.0694 U	84.7	78.0	112	117
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		301	342	306	319	336	348
67		9.85	10.8	9.84	10.5	13.2	14.0
68		2.52	3.11	2.86	2.76	2.88	2.97
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		2.52	2.86	2.68	2.49	2.93	3.10
73		0.0476 U	2.69	2.78	0.0499 U	0.0492 U	0.0491 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		33.8	34.3	33.2	37.3	36.4	36.1
78		0.363 U	0.360 U	0.196 U	0.356 U	0.305 U	0.318 U
79		21.7	32.3	26.3	26.9	22.2	24.2
80		0.327 U	0.309 U	0.169 U	0.320 U	0.274 U	0.286 U
81		2.04	0.961 EMPC	1.43 EMPC	2.11	2.07	2.23 EMPC
82		16.5	18.5	18.9	16.4	18.2	18.5
83	83 + 99	663 C	728 C	760 C	716 C	668 C	690 C
84		56.8	60.4	63.9	59.3	63.2	64.5
85	85 + 116 + 117	161 C	166 C	170 C	165 C	159 C	166 C
86	86 + 87 + 97 + 108 + 119 + 125	652 C	779 C	785 C	760 C	644 C	662 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	70.7 C	74.2 C	75.9 C	73.4 C	75.4 C	78.3 C
89		2.06	2.20	2.29	2.17	2.47	2.64
90	90 + 101 + 113	1,070 C	1,200 C	1,240 C	1,160 C	1,090 C	1,130 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		122	132	127	128	133	136
93	93 + 95 + 98 + 100 + 102	742 C	787 C	822 C	854 C	742 C	754 C
94		1.09	1.11 EMPC	1.21 EMPC	1.06	1.25	1.42
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		0.786	0.735	1.05	0.843	1.04	1.05
97	86 + 87 + 97 + 10						

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference P24 08030524TC 3/5/2008	Reference P27 08030427TC 3/4/2008	Reference P26 08030426TC 3/4/2008	Reference P28 08030428TC 3/4/2008	Reference P29 08022229TC 2/22/2008	Reference P34 08022534TC 2/25/2008
128	128 + 166	144°C	184°C	174°C	140°C	144°C	147°C
129	129 + 138 + 160 + 163	2,270°C	2,700°C	2,650°C	2,550°C	2,150°C	2,210°C
130		72.7	79.6	72.8	71.0	71.4	73.6
131		7.40	8.12	0.674 U	7.07	7.81	7.94
132		161	172	169	162	160	169
133		20.2	22.2	21.4	18.8	20.0	19.8
134	134 + 143	32.4°C	31.1°C	33.1°C	30.5°C	32.9°C	35.1°C
135	135 + 151 + 154	314°C	325°C	352°C	305°C	316°C	328°C
136		53.9	0.0686 U	0.0753 U	51.7	54.1	56.9
137		36.7	45.5	40.8	40.3	33.9	35.2
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	17.5°C	19.3°C	19.4°C	17.2°C	17.2°C	17.8°C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		31.0	39.2	35.3	33.7	28.9	31.2
142		0.417 U	0.668 U	0.686 U	0.533 U	0.313 U	0.326 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		27.9	29.6	30.7	27.0	27.6	29.0
145		0.175 EMPC	0.0724 U	0.181 EMPC	0.165 EMPC	0.155 EMPC	0.205 EMPC
146		343	432	412	386	335	348
147	147 + 149	1,210°C	1,400°C	1,370°C	1,280°C	1,140°C	1,200°C
148		2.07	2.26	2.32 EMPC	2.04	2.11	2.18
149	147 + 149	C147	C147	C147	C147	C147	C147
150		1.47	1.55	1.74	1.44	1.48	1.56
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.416	0.445 EMPC	0.0748 U	0.406	0.441	0.472
153	153 + 168	3,660°C	5,010°C	4,530°C	4,570°C	3,450°C	3,500°C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.948	1.01	1.05	0.861	0.956	1.02
156	156 + 157	126°C	149°C	137°C	152°C	125°C	129°C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		120	140	136	129	117	124
159		1.95	1.94	1.92	2.16 EMPC	1.95	2.26
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.295 U	0.412 U	0.423 U	0.377 U	0.221 U	0.231 U
162		2.99	3.18	2.80	2.64 EMPC	3.00	2.87
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		35.5	39.2	38.1	38.1	36.0	38.3
165		0.639 EMPC	0.480 U	0.493 U	0.476	0.589	0.257 U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		127	167	151	170	130	127
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.933 U	1.70 U	1.53 U	0.872 U	0.900 U	0.939 U
170		36.4	41.0	37.8	38.8	36.5	39.9
171	171 + 173	65.8°C	70.8°C	66.3°C	67.0°C	65.2°C	68.4°C
172		5.30	6.08	5.70	5.47	5.27	5.93
173	171 + 173	C171	C171	C171	C171	C171	C171
174		36.9	38.5	37.0	40.0	37.6	41.2
175		8.31	9.04	8.29	8.63	8.38	8.54
176		27.4	28.8	28.3	27.2	27.8	28.4
177		171	179	165	174	172	174
178		83.9	86.8	83.4	83.9	85.5	86.9
179		112	0.0805 U	113	111	112	116
180	180 + 193	440°C	529°C	465°C	584°C	422°C	431°C
181		2.16	2.58	2.47	2.39	2.20	2.32
182		0.889 EMPC	0.102 U	0.933	0.991 EMPC	0.803	0.998
183	183 + 185	195°C	216°C	202°C	220°C	191°C	198°C
184		1.45	1.54	1.58	1.32	1.55	1.45
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0476 U	0.0816 U	0.0602 U	0.0499 U	0.0580 U	0.0491 U
187		605	691	650	661	615	631
188		1.23	1.54	1.32	1.27	1.33	1.31
189		1.75	1.51 EMPC	1.44	1.85	1.68	1.98
190		79.1	90.9	80.3	98.6	78.0	78.5
191		5.39	6.14	5.82	6.20	5.33	5.86
192		0.0476 U	0.0834 U	0.0615 U	0.0499 U	0.0653 U	0.0491 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		7.58	9.49	9.21	8.56	7.56	8.38
195		23.9	26.3	25.3	26.2	24.0	25.1
196		12.9	14.8	13.9	15.0	13.3	14.5
197	197 + 200	7.77°C	7.80°C	8.48°C	8.04°C	8.07°C	8.11°C
198	198 + 199	29.9°C	29.3°C	29.2°C	32.0°C	30.6°C	33.5°C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		19.4	19.8	19.7	20.2	20.1	20.6
202		58.7	72.1	65.4	61.8	61.6	62.0
203		113	131	126	146	114	115
204		0.0810	0.0638 U	0.0870 EMPC	0.0820	0.100	0.0940
205		3.75	4.21	3.85	4.03	3.97	4.00
206		15.7	17.2	15.5	16.6	17.5	19.3
207		3.26	3.47	3.37	3.44	3.42	4.00
208		7.31	7.67	7.34	8.00	8.87	9.49
209		10.2	11.5	10.0	11.4	12.4	13.1

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	28.4 J	33.0 J	31.6 J	31.4 J	29.8 J	30.4 J
Total PCBs as Congeners (KM-based)	28.3 J	32.9 J	31.6 J	31.3 J	29.7 J	30.4 J
Total PCBs as Congeners (KM-based, capped)	28.3 J	32.9 J	31.6 J	31.3 J	29.7 J	30.4 J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference P35 08022533TC 2/25/2008	Reference P36 08022536TC 2/25/2008	Reference P37 08022637TC 2/26/2008	Reference P38 08022738TC 2/27/2008	Reference P39 08022739TC 2/27/2008	Reference P40 08022740TC 2/27/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		2.98	3.16	2.89	2.59	2.42	2.64
2		5.12	4.70	4.12	3.88	4.08	4.58
3		1.02	0.929	0.891	0.863	0.777	0.853
4		95.4	95.0	93.8	80.3	77.0	79.2
5		1.66	1.02	1.53	1.30	1.18	1.43
6		25.8	23.0	22.7	19.1	17.9	16.9
7		0.896	0.774	0.701	0.721	0.686	0.618
8		43.7	43.2	40.0	35.0	34.2	32.1
9		1.53	1.53	1.44	1.34	1.22	1.14
10		1.50	1.52	1.33	1.19	1.13	1.12
11		8,190	8,770	7,370	7,100	8,990	8,260
12	12 + 13	55.4 C	83.8 C	53.0 C EMPC	70.1 C	113 C	90.6 C
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.221	0.226	0.187	0.157	0.187	0.251 U
15		19.7	23.8	20.3	30.4 EMPC	35.6 EMPC	35.1 EMPC
16		147	133	127	111	111	107
17		142	133	122	106	104	103
18	18 + 30	315 C	310 C	300 C	252 C	252 C	242 C
19		15.6	15.6	15.2	13.4	13.0	12.9
20	20 + 28	147 C	161 C	163 C	138 C	133 C	128 C
21	21 + 33	79.3 C	80.7 C	79.8 C	68.9 C	66.5 C	65.7 C
22		149	165	162	138	141	135
23		0.201 EMPC	0.148	0.123 EMPC	0.184	0.134 U	0.120 EMPC
24		1.56	2.35	1.69	1.95	1.55	1.56
25		13.8	14.5	14.2	11.9	11.7	12.1
26	26 + 29	31.9 C	31.1 C	30.9 C	26.8 C	25.3 C	25.2 C
27		32.1	31.0	30.6	26.4	25.5	25.9
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		103	103	95.8	83.0	83.2	83.9
32		15.1	16.3	16.5	13.4	11.1	11.3
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.499 EMPC	0.418	0.395	0.365	0.328 EMPC	0.366
35		16.0	13.5	12.1	11.1	13.7	14.3
36		4.22	3.86	3.29	3.08	3.79	3.71
37		54.6	53.0	49.8	43.9	48.0	53.7
38		1.41	1.15 EMPC	1.06	0.913	1.08	1.10
39		3.39	2.43	2.13	2.00	2.31	2.95 J
40	40 + 41 + 71	132 C	121 C	98.3 C	98.1 C	103 C	102 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		233	207	203	168	185	183
43		5.77	7.01	5.94	6.44	6.63	7.40
44	44 + 47 + 65	791 C	699 C	689 C	599 C	665 C	681 C
45	45 + 51	35.4 C	31.2 C	31.2 C	26.9 C	27.0 C	28.7 C
46		6.10	5.76	5.40	4.93	4.81	4.83
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		105	98.1	90.6	77.5	83.4	84.2
49	49 + 69	172 C	159 C	143 C	126 C	138 C	141 C
50	50 + 53	70.4 C	62.6 C	63.1 C	53.7 C	57.4 C	60.0 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		462	416	385	353	394	420
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.176 EMPC	0.158	0.149	0.172	0.144	0.133
55		2.65	6.30	3.85	7.14	7.25	7.12
56		121	117	107	102	114	112
57		1.40	1.03	0.936	0.977 EMPC	0.930 EMPC	0.874
58		1.89	1.12 EMPC	0.924	0.987	1.01 EMPC	1.35
59	59 + 62 + 75	45.0 C	41.8 C	39.8 C	36.0 C	39.2 C	40.0 C
60		70.5	75.3	64.2	60.8	66.6	63.8
61	61 + 70 + 74 + 76	521 C	518 C	437 C	434 C	493 C	455 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		15.3	14.0	12.0	11.4	12.1	12.7
64		122	114	102	91.1	101	101
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		397	420	360	345	387	366
67		14.4	13.0	11.2	10.5	11.4	11.5
68		3.67	3.14	2.73	2.46	2.97	2.91
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		3.47	3.11	2.73	2.41	2.86	3.11
73		0.0491 U	0.0491 U	0.0484 U	0.0475 U	0.0499 U	0.0497 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		42.8	44.3	38.4	37.1	43.2	46.3
78		0.274 U	0.516 U	0.348 U	0.453 U	0.593 U	0.509 U
79		26.3	19.7	17.8	17.6	22.8	23.0
80		0.247 U	0.484 U	0.326 U	0.425 U	0.556 U	0.476 U
81		2.60	2.51	1.67 EMPC	1.99 EMPC	2.13 EMPC	2.75
82		22.0	24.5	20.6	21.5	25.1	21.7
83	83 + 99	806 C	833 C	720 C	717 C	849 C	738 C
84		78.3	79.1	69.4	64.2	78.4	70.9
85	85 + 116 + 117	198 C	202 C	173 C	166 C	203 C	175 C
86	86 + 87 + 97 + 108 + 119 + 125	768 C	773 C	692 C	668 C	792 C	702 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	91.4 C	94.7 C	82.7 C	75.7 C	91.9 C	83.8 C
89		3.00	2.86	2.47	2.51	2.97	2.47
90	90 + 101 + 113	1,320 C	1,350 C	1,170 C	1,140 C	1,350 C	1,220 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		163	160	143	133	163	146
93	93 + 95 + 98 + 100 + 102	862 C	821 C	761 C	701 C	855 C	811 C
94		1.50	1.33	1.22	1.15 EMPC	1.43	1.34
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		1.27	1.22	1.08	1.06	1.16	1.10 EMPC
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference P35 0802253TC 2/25/2008	Reference P36 0802253TC 2/25/2008	Reference P37 0802263TC 2/26/2008	Reference P38 0802273TC 2/27/2008	Reference P39 0802273TC 2/27/2008	Reference P40 0802274TC 2/27/2008
128	128 + 166	178 C	159 C	166 C	144 C	168 C	165 C
129	129 + 138 + 160 + 163	2,590 C	2,240 C	2,170 C	2,050 C	2,370 C	2,440 C
130		92.3	87.2	77.9	75.8	88.1	85.2
131		9.53	9.27	7.82	7.84	9.01	9.07
132		207	188	177	171	202	192
133		25.4	24.1	20.9	18.8	22.3	22.9
134	134 + 143	40.0 C	38.8 C	35.7 C	35.8 C	41.9 C	38.9 C
135	135 + 151 + 154	405 C	367 C	332 C	321 C	376 C	362 C
136		70.3	63.5	58.6	55.2	64.4	60.0
137		44.1	37.3	35.6	34.4	46.8	41.8
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	21.9 C	21.9 C	18.8 C	18.1 C	20.1 C	20.3 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		37.2	32.6	30.4	32.8	40.7	40.9
142		0.452 U	1.57 U	0.460 U	0.935 U	1.18 U	0.673 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		36.4	33.0	30.1	29.4	34.6	32.8
145		0.231 EMPC	0.158	0.165	0.171 EMPC	0.241 EMPC	0.185
146		421	374	342	319	389	397
147	147 + 149	1,460 C	1,290 C	1,190 C	1,190 C	1,360 C	1,360 C
148		2.70	2.53	2.10	1.98	2.54	2.35
149	147 + 149	C147	C147	C147	C147	C147	C147
150		1.89	1.72	1.46	1.42	1.73	1.60
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.600	0.495	0.475	0.410	0.522	0.447
153	153 + 168	3,970 C	3,420 C	3,340 C	3,030 C	3,800 C	3,670 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		1.25	1.28	1.06	1.06	1.37	1.27
156	156 + 157	148 C	154 C	138 C	135 C	166 C	158 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		149	139	125	124	147	142
159		2.45	1.98	1.41 EMPC	1.54	2.03 EMPC	1.98
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.320 U	1.06 U	0.312 U	0.634 U	0.801 U	0.469 U
162		3.69	3.68	3.38	2.99	3.80	3.76
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		45.7	43.1	38.0	36.9	41.5	41.1
165		0.791 EMPC	1.26 U	0.825	0.752 U	0.949 U	0.700 EMPC
166	128 + 166	C128	C128	C128	C128	C128	C128
167		139	139	146	123	154	146
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.901 U	1.32 U	0.698 U	0.987 U	1.01 U	1.25 U
170		45.6	52.1	43.2	43.9	54.3	46.5
171	171 + 173	78.9 C	84.3 C	71.2 C	70.7 C	83.9 C	76.0 C
172		6.78	7.29	6.24	6.01	6.98	6.32
173	171 + 173	C171	C171	C171	C171	C171	C171
174		47.7	46.2	40.1	38.1	46.9	42.6
175		10.4	10.4	8.84	8.54	10.3	9.73
176		34.0	33.6	28.8	28.0	33.0	31.7
177		205	220	188	181	216	198
178		101	110	90.5	87.9	107	97.4
179		140	136	116	113	134	129
180	180 + 193	474 C	494 C	489 C	414 C	547 C	476 C
181		2.49	2.53	2.23	2.38	2.84	2.31
182		0.986	1.24	1.11	0.0475 U	1.55	1.61
183	183 + 185	231 C	228 C	202 C	197 C	243 C	220 C
184		1.83	1.87	1.54	1.59	2.05	1.93
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0598 U	0.0491 U	0.0484 U	0.0475 U	0.0499 U	0.0680 U
187		733	734	625	625	758	704
188		1.50	1.52	1.30	1.25	1.39	1.57
189		2.23	2.40	2.09	1.95	2.34	2.41
190		89.2	93.8	84.8	80.3	102	88.7
191		6.52	6.81	6.20	6.01	7.62	6.69
192		0.0673 U	0.0491 U	0.0484 U	0.0475 U	0.0499 U	0.0766 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		9.99	10.2	9.10	8.85	10.9	10.3
195		29.8	29.6	26.4	24.4	29.6	28.8
196		16.3	17.4	14.9	14.6	16.6	15.8
197	197 + 200	10.0 C	9.91 C	8.47 C	7.81 C	9.62 C	8.90 C
198	198 + 199	38.0 C	37.7 C	32.9 C	29.4 C	36.7 C	33.8 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		24.8	23.7	20.3	19.1	23.0	22.1
202		71.0	77.3	65.6	60.3	73.2	69.3
203		131	122	120	101	130	122
204		0.102	0.129	0.0920 EMPC	0.0820 EMPC	0.150 EMPC	0.123
205		4.76 EMPC	5.01	4.33	4.04	4.93	4.93
206		20.6	21.2	18.8	17.1	20.3	19.4
207		4.26	4.00	3.58	3.37	4.18	3.76
208		10.1	10.3	9.20	8.06	9.69	8.93
209		14.1	17.0	15.0	12.8	16.1	13.3

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	34.5 J	33.7 J	30.2 J	28.7 J	34.4 J	33.0 J
Total PCBs as Congeners (KM-based)	34.5 J	33.7 J	30.2 J	28.6 J	34.3 J	32.9 J
Total PCBs as Congeners (KM-based, capped)	34.5 J	33.7 J	30.2 J	28.6 J	34.3 J	32.9 J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference P41 0802274TC 2/27/2008	Reference P42 08022742TC 2/27/2008	Reference P85 08030683TC 3/6/2008	Reference P86 08030686TC 3/6/2008	Reference P87 08030687TC 3/6/2008	Forebay - Goose Island P10 080429110T C 4/29/2009
Individual Congeners in pg/g (ng/kg), wet weight							
1		2.41	1.95	1.68	1.66	1.84	1.62
2		4.36	3.40	3.81	3.71	3.68	3.65
3		0.785	0.610 EMPC	0.811	0.697	0.686 EMPC	0.805 EMPC
4		70.6	54.1	37.1	38.4	38.9	36.8
5		1.33	1.18	0.997	0.876	0.929	0.700
6		15.4	11.1	8.17	8.41	8.15	7.82
7		0.674 EMPC	0.500 EMPC	0.362	0.351 EMPC	0.363	0.480
8		29.0	23.1	21.6	18.9	19.4	22.6
9		0.988	0.752 EMPC	0.543	0.470	0.524	0.597
10		0.982	0.736 EMPC	0.517	0.452	0.524	0.501 EMPC
11		8,070	7,380	7,720	6,790	7,180	4,480
12	12 + 13	62.5 C EMPC	118 C	109 C	93.8 C	62.3 C EMPC	0.385 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.235 U	0.203 U	0.241 U	0.263 U	0.245 U	0.366 U
15		21.8	20.1 EMPC	30.8 EMPC	32.8 EMPC	17.8	36.9
16		105	85.4	75.7	74.4	72.0	53.7
17		98.9	75.9	67.8	65.8	59.3	49.7
18	18 + 30	236 C	186 C	159 C	156 C	151 C	116 C
19		11.7	9.16	7.22	7.21	7.72	9.19
20	20 + 28	122 C	101 C	94.5 C	81.9 C	80.3 C	110 C
21	21 + 33	60.1 C	49.4 C	46.5 C	41.4 C	42.1 C	56.2 C
22		131	109	104	98.5	93.2	102
23		0.116	0.116 U	0.0965 U	0.0738 U	0.114 EMPC	0.127 EMPC
24		1.44	1.40	1.08	1.22	1.08	1.35
25		11.2	9.22	8.62	7.68	7.61	10.1
26	26 + 29	23.6 C	18.7 C	16.8 C	15.3 C	15.6 C	21.0 C
27		24.9	20.2	18.2	17.2	16.4	13.0
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		78.4	64.1	59.0	50.6	49.2	76.2
32		9.77	7.08	6.09	5.53	5.44	9.78
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.340	0.235 EMPC	0.256	0.225	0.271	0.325
35		14.8	13.3	13.1	11.3	11.6	11.0
36		3.81	3.47	3.60	2.86	2.91	2.49
37		52.1	45.1	43.2	39.1	37.7	47.7
38		0.946	0.923	1.02	0.888	0.951	0.867
39		2.85	2.34 J	2.43	2.18 J	1.99	2.04
40	40 + 41 + 71	98.7 C	81.9 C	78.2 C	74.3 C	71.8 C	102 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		178	151	165	148	137	107
43		7.19	6.16	5.06	4.80	5.18	6.41
44	44 + 47 + 65	678 C	598 C	619 C	567 C	538 C	399 C
45	45 + 51	27.8 C	22.6 C	21.1 C	20.5 C	20.0 C	22.4 C
46		4.82	3.86	3.48	3.45	3.27	5.07 EMPC
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		81.7	67.9	67.4	64.8	58.4	57.7
49	49 + 69	139 C	119 C	121 C	113 C	104 C	120 C
50	50 + 53	59.0 C	50.4 C	46.3 C	46.7 C	44.9 C	33.3 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		419	368	346	332	329	322
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.144	0.108 EMPC	0.0690	0.0660 EMPC	0.0680 EMPC	0.131
55		6.01	8.15	5.80	7.86	7.59	8.48
56		112	98.9	97.8	97.1	92.6	109
57		1.01	0.723	0.802	0.776 EMPC	0.662	1.01
58		1.63	1.37 EMPC	1.30 EMPC	1.14	1.07	1.12
59	59 + 62 + 75	38.9 C	33.5 C	32.2 C	31.2 C	29.8 C	29.6 C
60		64.9	58.9	58.7	54.0	50.6	60.1
61	61 + 70 + 74 + 76	458 C	411 C	406 C	373 C	346 C	394 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		13.0	11.4	11.5	10.5	9.72	10.5
64		99.7	85.8	85.3	79.1	74.5	94.4
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		368	332	332	313	287	295
67		11.3	9.74	9.98	9.56	8.51	9.20
68		2.91	2.60	2.79	2.62	2.52	2.75
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		3.04	2.68	2.75	2.43	2.44	2.59
73		0.0495 U	0.0481 U	0.0487 U	0.0452 U	0.0476 U	0.0585 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		46.8	41.4	40.8	38.4	35.7	33.7
78		0.453 U	0.522 U	0.433 U	0.482 U	0.435 U	0.714 U
79		22.0	20.3	20.9	19.5	18.7	15.8
80		0.423 U	0.488 U	0.405 U	0.451 U	0.407 U	0.624 U
81		2.21	2.03	1.88 EMPC	1.80	1.51 EMPC	2.17 EMPC
82		20.9	18.8	18.8	16.8	17.1	29.3
83	83 + 99	750 C	674 C	686 C	629 C	590 C	529 C
84		73.1	64.4	62.4	56.0	52.7	64.7
85	85 + 116 + 117	174 C	158 C	164 C	145 C	136 C	134 C
86	86 + 87 + 97 + 108 + 119 + 125	707 C	645 C	684 C	596 C	578 C	489 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	85.7 C	75.1 C	77.8 C	71.0 C	65.9 C	59.6 C
89		2.53	2.25	2.36	2.06	2.01	2.82
90	90 + 101 + 113	1,260 C	1,130 C	1,140 C	1,030 C	965 C	845 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		152	136	129	116	113	110
93	93 + 95 + 98 + 100 + 102	829 C	746 C	769 C	687 C	682 C	500 C
94		1.30 EMPC	1.15	1.10	1.03	1.08 EMPC	1.25 EMPC
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		1.00	0.923	0.913	0.785	0.760	0.989
97</td							

**Table H-9**  
**Sediment PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS1	Reference P41 0802274TC 2/27/2008	Reference P42 0802274TC 2/27/2008	Reference P85 0803068TC 3/6/2008	Reference P86 0803068TC 3/6/2008	Reference P87 0803068TC 3/6/2008	Forebay - Goose Island P110 080429110T C 4/29/2009
128	128 + 166	171 C	154 C	150 C	140 C	127 C	141 C
129	129 + 138 + 160 + 163	2,470 C	2,260 C	2,270 C	2,060 C	1,990 C	1,640 C
130		87.7	78.3	77.8	71.3	64.1	61.3
131		9.29	8.15	7.96	7.22	6.33	7.67
132		193	171	165	156	146	162
133		23.6	20.8	20.9	17.3	16.9	16.7
134	134 + 143	39.1 C	34.5 C	34.1 C	31.1 C	28.6 C	31.9 C
135	135 + 151 + 154	355 C	324 C	316 C	282 C	268 C	270 C
136		59.7	53.7	53.6	50.0	44.4	48.9
137		40.2	37.3	32.6	32.6	32.6	32.7
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	20.4 C	17.8 C	18.6 C	17.1 C	15.3 C	14.8 C
140	139 + 140		C139	C139	C139	C139	C139
141		44.8	40.7	39.1	38.3	39.6	45.1
142		1.09 U	1.14 U	1.05 U	1.10 U	0.806 U	0.913 U
143	134 + 143		C134	C134	C134	C134	C134
144		33.6	29.4	30.0	26.5	23.5	26.2
145		0.209 EMPC	0.200	0.210 EMPC	0.220 EMPC	0.173	0.256
146		395	361	353	302	314	270
147	147 + 149	1,350 C	1,240 C	1,230 C	1,140 C	1,080 C	930 C
148		2.32	2.10	2.04	1.61	1.64	1.49
149	147 + 149		C147	C147	C147	C147	C147
150		1.57	1.50	1.45	1.38	1.23	1.12
151	135 + 151 + 154		C135	C135	C135	C135	C135
152		0.421	0.426	0.448	0.383	0.375	0.447
153	153 + 168	3,630 C	3,380 C	4,070 C	3,060 C	3,190 C	2,540 C
154	135 + 151 + 154		C135	C135	C135	C135	C135
155		1.35	1.18 EMPC	1.09	0.946 EMPC	0.846	0.907
156	156 + 157	161 C	145 C	137 C	123 C	125 C	96.9 C
157	156 + 157		C156	C156	C156	C156	C156
158		144	129	126	117	108	103
159		2.16	1.72	1.61 EMPC	1.53 EMPC	1.51	2.45
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.761 U	0.793 U	0.733 U	0.767 U	0.561 U	0.641 U
162		3.56	3.07	2.68	2.74	2.41 EMPC	2.92
163	129 + 138 + 160 + 163		C129	C129	C129	C129	C129
164		43.5	39.1	37.0	34.0	32.9	37.4
165		0.868 U	0.905 U	0.836 U	0.875 U	0.640 U	0.733 U
166	128 + 166		C128	C128	C128	C128	C128
167		146	137	165	123	131	92.5
168	153 + 168		C153	C153	C153	C153	C153
169		1.03 U	1.01 U	1.73 U	1.17 U	1.57 U	1.08 U
170		47.9	43.4	37.0	37.3	35.6	38.7
171	171 + 173	78.5 C	70.4 C	68.0 C	64.4 C	56.0 C	52.7 C
172		6.59	6.01	5.19	5.14	4.85	6.10
173	171 + 173		C171	C171	C171	C171	C171
174		43.3	40.1	34.6	34.5	32.5	39.6
175		10.1	8.98	8.11	7.15	6.96	7.22
176		32.0	29.5	27.3	25.5	23.4	22.0
177		206	188	180	169	153	139
178		99.9	90.4	87.0	78.2	73.3	65.3
179		131	119	116	108	97.9	87.2
180	180 + 193	476 C	458 C	474 C	390 C	384 C	295 C
181		2.46	2.22 EMPC	2.07	1.97	2.17	1.72
182		1.57 EMPC	1.25	1.28 EMPC	1.20 EMPC	1.21 EMPC	0.144 U
183	183 + 185	223 C	209 C	189 C	171 C	168 C	153 C
184		1.74	1.53	1.41	1.12	1.13	1.06
185	183 + 185		C183	C183	C183	C183	C183
186		0.0649 U	0.0481 U	0.0533 U	0.0452 U	0.0550 U	0.122 U
187		705	660	614	555	541	477
188		1.48	1.41	1.48	1.16	1.24	1.09
189		2.37	2.17	2.01	1.71	1.72	1.57
190		89.6	84.7	79.4	72.8	72.4	52.6
191		7.04	6.73	5.99	5.43	5.45	5.48
192		0.0730 U	0.0481 U	0.0600 U	0.0467 U	0.0618 U	0.129 U
193	180 + 193		C180	C180	C180	C180	C180
194		10.6	10.4	7.99	7.57	8.29	8.03
195		30.2	27.1	24.5	25.0	21.6	17.8
196		16.3	14.7	12.2	12.0	11.7	11.4
197	197 + 200	9.36 C	8.25 C	7.71 C	6.94 C	6.61 C	6.84 C
198	198 + 199	35.9 C	32.0 C	29.0 C	29.2 C	27.6 C	28.2 C
199	198 + 199		C198	C198	C198	C198	C198
200	197 + 200		C197	C197	C197	C197	C197
201		23.2	20.2	19.6	16.8	16.7	13.5
202		72.1	64.9	67.4	58.8	58.2	44.5
203		122	115	117	97.3	99.5	74.5
204		0.0960 EMPC	0.0680	0.0840	0.0820 EMPC	0.109 EMPC	0.0634 U
205		5.16	4.65	4.26	4.02	3.78	2.87
206		20.1	17.7	16.5	15.9	15.7	10.9
207		3.99	3.45	3.14	2.96	3.02	2.25
208		9.49	8.61	7.81	7.63	7.36	5.71
209		14.3	12.5	11.9	10.6	10.6	7.10
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)	32.9 J	29.8 J	30.8 J	27.0 J	26.9 J	21.4 J	
Total PCBs as Congeners (KM-based)	32.8 J	29.7 J	30.7 J	27.0 J	26.9 J	21.5 J	
Total PCBs as Congeners (KM-based, capped)	32.8 J	29.7 J	30.7 J	27.0 J	26.9 J	21.4 J	

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P01-CF 0802/1904CF 2/19/2008	Forebay P04-CF 0802/1904CF 2/19/2008	Forebay P05-CF 0802/1905CF 2/15/2008	Forebay P06-CF 0802/1406CF 2/14/2008	Forebay P07-CF 0802/1407CF 2/14/2008	Forebay P08-CF 0802/1408CF 2/14/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.135	0.196	0.260	0.243	0.255	EMPC
2		0.0780	0.109	0.146	0.236	0.0531	U
3		0.175	EMPC	0.230	0.192	0.220	EMPC
4		0.474	U	0.535	U	0.167	
5		0.0959	U	0.163	U	0.137	U
6		0.235		0.248	0.217	0.239	
7		0.0910		0.144	0.0960	EMPC	0.121
8		1.05	U	0.991	U	0.900	U
9		0.101		0.164	EMPC	0.121	U
10		0.0826	U	0.140	U	0.118	U
11		50.1		30.2	36.9	16.4	
12	12 + 13	0.0920	C U	0.156	C U	0.131	C U
13	12 + 13		C12	C12	C12	C12	C12
14		0.0688	U	0.151	U	0.127	U
15		1.98	EMPC	1.35	3.55	EMPC	2.44
16		0.530		0.369	EMPC	0.411	EMPC
17		0.510		0.537	1.11	0.806	0.504
18	18 + 30	1.71	C U	1.04	C U	2.12	C U
19		0.131	U	0.189	U	0.235	U
20	20 + 28	2.63	C U	2.58	C	3.24	C
21	21 + 33	0.746	C U	0.687	C U	0.804	C U
22		0.544		0.568		0.489	
23		0.0636	U	0.0652	U	0.0634	U
24		0.0489	U	0.0592	U	0.0500	U
25		0.0860	EMPC	0.177	EMPC	0.256	0.169
26	26 + 29	0.443	C U	0.474	C U	1.22	C
27		0.107	EMPC	0.233		0.348	0.332
28	20 + 28		C20	C20	C20	C20	C20
29	26 + 29		C26	C26	C26	C26	C26
30	18 + 30		C18	C18	C18	C18	C18
31		1.29	U	1.28	U	1.63	U
32		0.289		0.266		0.453	0.246
33	21 + 33		C21	C21	C21	C21	C21
34		0.0649	U	0.0665	U	0.0647	U
35		0.271	EMPC	0.143		0.280	0.351
36		0.0700	EMPC	0.0569	U	0.0554	U
37		3.31		2.55		4.15	4.29
38		0.0590	U	0.0606	U	0.0589	U
39		0.0620	U	0.0636	U	0.151	0.0497
40	40 + 41 + 71	0.487	C EMPC	0.987	C	1.34	C
41	40 + 41 + 71		C40	C40	C40	C40	C40
42		0.608		1.44		0.791	2.24
43		0.0514	U	0.0696	U	0.182	EMPC
44	44 + 47 + 65	4.56	C	12.4	C	7.96	C
45	45 + 51	0.141	C	0.258	C	0.431	C
46		0.0489	U	0.0750		0.149	0.0710
47	44 + 47 + 65		C44	C44	C44	C44	C44
48		0.291	U	0.372	U	0.431	U
49	49 + 69	0.743	C	2.91	C	3.89	C
50	50 + 53	0.275	C EMPC	0.573	C	1.02	C
51	45 + 51		C45	C45	C45	C45	C45
52		2.76		10.0		16.9	17.8
53	50 + 53		C50	C50	C50	C50	C50
54		0.0489	U	0.0641	U	0.0520	0.0497
55		0.157	U	0.259	U	0.135	U
56		0.544	U	1.60		1.47	2.13
57		0.143	U	0.235	U	0.141	EMPC
58		0.167	U	0.275	U	0.143	U
59	59 + 62 + 75	0.158	C U	0.119	C U	0.192	C U
60		0.840	EMPC	1.78		1.59	1.89
61	61 + 70 + 74 + 76	13.9	C	44.6	C	213	C
62	59 + 62 + 75		C59	C59	C59	C59	C59
63		1.70		10.6		23.5	33.8
64		0.494	U	1.51		2.10	1.18
65	44 + 47 + 65		C44	C44	C44	C44	C44
66		13.2		35.7		57.7	96.7
67		0.174		0.237	U	0.292	EMPC
68		0.353		1.02	EMPC	1.80	0.911
69	49 + 69		C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76		C61	C61	C61	C61	C61
71	40 + 41 + 71		C40	C40	C40	C40	C40
72		0.130	U	0.214	U	0.250	0.180
73		0.0489	U	0.0496	U	0.0500	U
74	61 + 70 + 74 + 76		C61	C61	C61	C61	C61
75	59 + 62 + 75		C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76		C61	C61	C61	C61	C61
77		3.76		6.54		14.8	20.7
78		0.166	U	0.273	U	0.142	U
79		0.516	EMPC	2.67		0.870	2.47
80		0.142	U	0.234	U	0.122	U
81		0.239	EMPC	0.446		0.823	EMPC
82		0.396	EMPC	2.73		1.96	1.45
83	83 + 99	18.6	C	92.8	C	69.0	C
84		0.470	U	4.02		4.02	2.46
85	85 + 116 + 117	6.37	C	123	C	92.4	C
86	86 + 87 + 97 + 108 + 119 + 125	7.22	C	42.5	C	10.0	C
87	86 + 87 + 97 + 108 + 119 + 125		C86	C86	C86	C86	C86
88	88 + 91	0.513	C	3.48	C	2.50	C
89		0.0615	U	0.0834	U	0.119	0.100
90	90 + 101 + 113	11.6	C	57.7	C	60.8	C
91	88 + 91		C88	C88	C88	C88	C88
92		1.83		6.84		5.38	6.39
93	93 + 95 + 98 + 100 + 102	6.85	C	34.1	C	18.1	C
94		0.0611	U	0.0828	U	0.0893	U
95	93 + 95 + 98 + 100 + 102		C93	C93	C93	C93	C93
96		0.0489	U	0.0496	U	0.104	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102		C93	C93	C93	C93	C93
99	83 + 99		C83	C83	C83	C83	C83
100	93 + 95 + 98 + 100 + 102		C93	C93	C93	C93	C93
101	90 + 101 + 113		C90	C90	C90	C90	C90
102	93 + 95 + 98 + 100 + 102		C93	C93	C93	C93	C93
103		0.0500	U	0.189		0.166	0.110
104		0.0489	U	0.0496	U	0.0500	U
105		14.6		93.1		56.6	86.3
106		0.481	U	2.58	U	2.31	U</

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
 (Page 2 of 12)

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P01-CF 0802/19/2008	Forebay P04-CF 0802/19/2008	Forebay P05-CF 0802/15/2008	Forebay P06-CF 0802/14/2008	Forebay P07-CF 0802/14/2008	Forebay P08-CF 0802/14/2008
128	128 + 166	3.34:C	132:C	59.7:C	112:C	28.7:C	11.4:C
129	129 + 138 + 160 + 163	136:C	1,490:C	1,250:C	3,840:C	983:C	260:C
130		6.23:	13.1:	15.7:	31.0:	89.7:	11.2:
131		0.160:U	0.521:	0.226:U	0.281:U	0.632:U	0.164:U
132		1.64:EMPC	8.32:	4.01:	3.69:	3.12:	1.25:
133		3.90:	11.3:	32.3:	39.5:	26.8:	5.97:
134	134 + 143	0.164:C U	2.94:C	0.988:C	0.288:C U	0.648:C U	0.907:C
135	135 + 151 + 154	7.02:C	13.2:C	11.8:C	8.25:C	34.1:C	5.84:C
136		0.679:	3.94:	3.02:	1.79:	27.8:	1.05:
137		11.9:	698:	662:	1,770:	291:	83.3:
138	129 + 138 + 160 + 163	:C129	:C129	:C129	:C129	:C129	:C129
139	139 + 140	0.444:C EMPC	1.84:C	1.40:C	0.260:C U	13.9:C	0.878:C
140	139 + 140	:C139	:C139	:C139	:C139	:C139	:C139
141		0.154:U	0.204:U	0.218:U	0.271:U	0.609:U	0.158:U
142		0.166:U	0.220:U	0.235:U	0.292:U	0.657:U	0.171:U
143	134 + 143	:C134	:C134	:C134	:C134	:C134	:C134
144		0.433:	1.45:	0.977:	0.957:	0.853:EMPC	0.461:
145		0.0489:U	0.0496:U	0.0514:U	0.0497:U	0.0641:U	0.0550:U
146		52.3:	483:	601:	1,790:	323:	101:
147	147 + 149	11.8:C	52.2:C	27.4:C	92.6:C	57.3:C	14.5:C
148		0.0910:	0.0840:	0.113:	0.0850:EMPC	0.737:	0.0724:U
149	147 + 149	:C147	:C147	:C147	:C147	:C147	:C147
150		0.0489:U	0.0820:EMPC	0.0500:U	0.0497:U	0.317:	0.0508:U
151	135 + 151 + 154	:C135	:C135	:C135	:C135	:C135	:C135
152		0.0489:U	0.0496:U	0.0500:U	0.0497:U	0.0532:U	0.0498:U
153	153 + 168	242:C	2,060:C	2,870:C	7,730:C	2,320:C	570:C
154	135 + 151 + 154	:C135	:C135	:C135	:C135	:C135	:C135
155		0.0820:	0.0496:U	0.112:	0.191:EMPC	0.190:EMPC	0.0770:
156	156 + 157	38.2:C	2,280:C	1,620:C	3,910:C	655:C	211:C
157	156 + 157	:C156	:C156	:C156	:C156	:C156	:C156
158		2.61:	10.5:	5.41:	7.03:	9.62:	3.49:
159		0.198:EMPC	0.360:EMPC	0.177:U	0.220:U	1.01:EMPC	0.189:EMPC
160	129 + 138 + 160 + 163	:C129	:C129	:C129	:C129	:C129	:C129
161		0.117:U	0.155:U	0.165:U	0.205:U	0.462:U	0.120:U
162		1.46:	38.2:	31.8:	74.6:	13.1:	4.77:
163	129 + 138 + 160 + 163	:C129	:C129	:C129	:C129	:C129	:C129
164		0.124:U	0.164:U	0.175:U	0.217:U	0.489:U	0.127:U
165		0.133:U	0.524:	0.866:EMPC	0.234:U	0.528:U	0.172:EMPC
166	128 + 166	:C128	:C128	:C128	:C128	:C128	:C128
167		23.0:	1,180:	629:	1,530:	222:	97.1:
168	153 + 168	:C153	:C153	:C153	:C153	:C153	:C153
169		0.597:U	2.95:U	1.80:U	1.20:U	2.22:U	0.487:U
170		21.6:	137:	160:	326:	239:	29.3:
171	171 + 173	2.99:C	5.30:C	4.06:C	3.04:C	18.8:C	1.86:C
172		2.97:	5.77:	10.3:	11.5:	24.4:	3.38:
173	171 + 173	:C171	:C171	:C171	:C171	:C171	:C171
174		2.39:	8.43:	6.02:	3.65:	16.2:	2.45:EMPC
175		0.921:	1.56:	2.38:	3.30:	5.92:	1.01:
176		0.531:	1.08:	0.443:EMPC	0.351:	1.39:	0.299:
177		22.1:	34.2:	25.9:	36.4:	58.5:	17.4:
178		7.12:	9.28:	13.6:	10.2:	21.1:	6.02:
179		1.62:	2.86:	2.26:	1.89:	2.80:	1.62:
180	180 + 193	143:C	1,710:C	0.0552:C U	2,450:C	495:C	194:C
181		0.776:EMPC	28.1:	14.7:	30.6:	8.48:	2.06:
182		0.0596:U	0.0594:U	0.0632:U	0.0593:U	1.47:	0.0879:U
183	183 + 185	16.8:C	28.4:C	40.5:C	42.5:C	81.3:C	13.6:C
184		0.0940:	0.0496:U	0.0500:U	0.0497:U	0.147:EMPC	0.0613:U
185	183 + 185	:C183	:C183	:C183	:C183	:C183	:C183
186		0.0489:U	0.0496:U	0.0500:U	0.0497:U	0.0574:U	0.0680:U
187		165:	792:	424:	896:	238:	160:
188		0.349:EMPC	1.27:	0.657:	0.755:	0.422:	0.317:
189		2.69:	68.3:	41.4:	82.1:	16.0:	5.48:
190		14.1:	130:	49.4:	40.3:	51.9:	13.8:
191		1.75:	13.3:	13.6:	33.6:	11.6:	3.01:
192		0.0560:U	0.0558:U	0.0593:U	0.0557:U	0.0697:U	0.0826:U
193	180 + 193	:C180	:C180	:C180	:C180	:C180	:C180
194		11.0:	39.5:	36.3:	37.8:	47.1:	9.33:
195		7.44:	19.1:	14.7:	12.6:	15.9:	4.55:
196		9.34:	35.9:	19.8:	22.1:	27.4:	6.12:
197	197 + 200	1.05:C	2.37:C	1.36:C	0.678:C	3.82:C	0.475:C
198	198 + 199	19.0:C	57.7:C	38.6:C	38.9:C	62.9:C	14.1:C
199	198 + 199	:C198	:C198	:C198	:C198	:C198	:C198
200	197 + 200	:C197	:C197	:C197	:C197	:C197	:C197
201		3.70:	8.46:	5.73:	4.90:	8.53:	2.42:
202		2.79:	3.73:	3.95:	3.21:	11.0:	2.74:
203		16.1:	43.4:	18.8:	13.0:	44.2:	9.43:
204		0.0489:U	0.0615:U	0.0572:U	0.0702:U	0.0597:U	0.0720:U
205		0.689:EMPC	1.50:	1.37:	0.796:	2.02:	0.545:EMPC
206		4.40:	6.06:	7.23:	4.38:	25.4:	3.63:
207		1.88:	4.24:	2.49:	1.54:	4.31:	1.03:
208		2.57:	4.14:	3.50:	2.98:	7.18:	1.91:
209		5.07:	4.84:	5.75:	4.94:	4.45:	3.19:

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	1.46:J	16.8:J	16.9:J	42.7:J	12.5:J	3.14:J
Total PCBs as Congeners (KM-based)	1.44:J	16.9:J	16.9:J	42.6:J	12.4:J	3.12:J
Total PCBs as Congeners (KM-based, capped)	1.44:J	16.8:J	16.9:J	42.6:J	12.4:J	3.12:J

**Notes:**

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
**(Page 3 of 12)**

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P13-CF 0802/14/CF 2/14/2008	Forebay P14-CF 0802/20/14CF 2/20/2008	Forebay P15-CF 0802/19/15CF 2/19/2008	Forebay P16-CF 0802/22/16CF 2/22/2008	Forebay P17-CF 0802/19/17CF 2/19/2008	Forebay P18-CF 0802/19/18CF 2/19/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.138	0.134	0.153	0.224	0.151	0.128
2		0.0970:EMPC	0.123:EMPC	0.139	0.175	0.108:EMPC	0.139:EMPC
3		0.193:EMPC	0.209:EMPC	0.203:EMPC	0.191:EMPC	0.239:EMPC	0.227:EMPC
4		0.224:U	0.275:U	0.520:U	0.884:U	0.483:U	0.308:U
5		0.156:U	0.114:U	0.129:U	0.745:U	0.163:U	0.161:U
6		0.138:U	0.147:	0.192	0.653:U	0.145:U	0.143:U
7		0.142:U	0.104:U	0.118:U	0.655:U	0.149:U	0.147:U
8		0.339:U	0.579:U	0.782:U	0.585:U	0.530:U	0.466:U
9		0.140:U	0.102:U	0.116:U	0.654:U	0.146:U	0.144:U
10		0.144:U	0.105:U	0.120:U	0.648:U	0.151:U	0.149:U
11		12.0:	16.7:	32.3	56.4:	37.9:	41.9:
12	12 + 13	0.156:C U	0.114:C U	0.130:C U	0.714:C U	0.164:C U	0.162:C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.147:U	0.108:U	0.122:U	0.677:U	0.155:U	0.152:U
15		0.931:	0.832:	3.11:	1.03:U	1.02:EMPC	1.15:
16		0.172:	0.321:	0.365:	0.378:EMPC	0.409:EMPC	0.278:
17		0.143:EMPC	0.340:EMPC	0.341:	0.389	0.488:	0.306:EMPC
18	18 + 30	0.460:C U	0.668:C U	1.16:C U	1.30:C U	1.03:C U	0.828:C U
19		0.0964:U	0.0679:U	0.0970:U	0.157:U	0.104:U	0.147:U
20	20 + 28	1.27:C U	1.87:C U	2.61:C U	2.21:C U	1.91:C U	2.07:C U
21	21 + 33	0.395:C U	0.507:C U	0.743:C U	0.480:C U	0.481:C U	0.544:C U
22		0.320:	0.399:EMPC	0.564:	0.362	0.766:	0.492:EMPC
23		0.0692:U	0.0515:U	0.0709:U	0.0981:U	0.0862:U	0.0598:U
24		0.0682:U	0.0509:U	0.0683:U	0.0802:U	0.0615:U	0.0606:U
25		0.0618:U	0.0630:	0.122:	0.101:EMPC	0.0850:	0.0535:U
26	26 + 29	0.239:C U	0.247:C U	0.479:C U	0.488:C U	0.310:C U	0.358:C U
27		0.0659:U	0.0520:EMPC	0.103:	0.0748:U	0.0850:EMPC	0.0586:U
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.607:U	0.932:U	1.14:U	1.05:U	1.03:U	0.880:U
32		0.125:EMPC	0.199:	0.239:	0.185	0.148	0.161:
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0709:U	0.0527:U	0.0726:U	0.0998:U	0.0883:U	0.0613:U
35		0.0870:EMPC	0.0680:EMPC	0.120:EMPC	0.157:	0.0961:U	0.149:
36		0.0672:U	0.0500:U	0.0689:U	0.0950:EMPC	0.0838:U	0.0582:U
37		1.52:	1.01:	5.58:	3.88:	1.51:	2.84:
38		0.0692:U	0.0515:U	0.0709:U	0.0956:U	0.0862:U	0.0598:U
39		0.149:	0.0567:U	0.0781:U	0.106:U	0.0950:U	0.0659:U
40	40 + 41 + 71	0.343:C	0.435:C	0.627:C	0.502:C	0.666:C	0.534:C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.154:U	0.174:U	0.464:	0.409:U	0.916:	0.369:U
43		0.0837:U	0.0849:U	0.0880:U	0.118:U	0.0942:U	0.0936:U
44	44 + 47 + 65	1.13:C	1.28:C	2.98:C	3.12:C	3.28:C	2.17:C
45	45 + 51	0.129:C EMPC	0.0900:C	0.144:C	0.261:C EMPC	0.194:C	0.184:C
46		0.0852:U	0.0864:U	0.0896:U	0.110:U	0.0959:U	0.0953:U
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.145:U	0.184:U	0.189:U	0.275:U	0.454:U	0.204:U
49	49 + 69	0.603:C	0.659:C	0.716:C	0.892:C EMPC	1.36:C	0.738:C EMPC
50	50 + 53	0.137:C	0.107:C EMPC	0.195:C	0.194:C	0.212:C	0.124:C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		1.56:	1.72:	2.28	2.58:	2.72:	2.14:
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0644:U	0.0578:U	0.0616:U	0.0711:U	0.0655:U	0.0733:U
55		0.191:U	0.109:U	0.234:U	0.268:U	0.140:U	0.130:U
56		0.287:U	0.329:U	0.414:U	0.612:U	0.822:U	0.427:U
57		0.172:U	0.0979:U	0.211:U	0.254:U	0.126:U	0.117:U
58		0.187:U	0.106:U	0.229:U	0.285:U	0.137:U	0.127:U
59	59 + 62 + 75	0.0960:C U	0.0573:C U	0.151:C U	0.130:C U	0.124:C U	0.0850:C U
60		0.222:U	0.282:U	0.462:U	0.691:	0.726:	0.619:
61	61 + 70 + 74 + 76	6.77:C	4.72:C	7.95:C	14.0:C	8.04:C	8.64:C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		1.75:	1.24:	1.88:	2.48:	0.615:	1.91:
64		0.339:U	0.458:U	0.563:U	0.578:U	0.892:U	0.488:U
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		7.05:	3.86:	8.47:	19.0:	6.72:	10.8:
67		0.161:U	0.0917:U	0.197:U	0.250:U	0.118:U	0.110:U
68		0.870:EMPC	0.424:	0.520:	0.741	0.225:	0.629:EMPC
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.165:U	0.0936:U	0.201:U	0.234:U	0.121:U	0.112:U
73		0.0590:U	0.0598:U	0.0620:U	0.0715:U	0.0664:U	0.0659:U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		2.11:	1.74:	4.38:	5.14:	1.57:	4.12:
78		0.195:U	0.111:U	0.238:U	0.286:U	0.143:U	0.133:U
79		0.150:U	0.0854:U	0.227:EMPC	0.240:EMPC	0.189:EMPC	0.206:EMPC
80		0.167:U	0.0951:U	0.205:U	0.228:U	0.123:U	0.114:U
81		0.215:U	0.125:U	0.273:U	0.289:U	0.164:U	0.313:EMPC
82		0.206:EMPC	0.198:	0.237:EMPC	0.259:EMPC	0.372:EMPC	0.224:
83	83 + 99	7.35:C	3.17:C	7.66:C	18.9:C	8.36:C	9.81:C
84		0.402:U	0.453:U	0.597:EMPC	0.533:U	0.657:	0.419:U
85	85 + 116 + 117	4.58:C</					

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P13-CF 08022014CF 2/14/2008	Forebay P14-CF 08022014CF 2/20/2008	Forebay P15-CF 08022014CF 2/19/2008	Forebay P16-CF 08022210CF 2/22/2008	Forebay P17-CF 08022917CF 2/19/2008	Forebay P18-CF 08022918CF 2/19/2008
128	128 + 166	1.63 C EMPC	1.61 C	1.91 C	2.59 C	2.30 C EMPC	2.21 C
129	129 + 138 + 160 + 163	60.4 C	54.7 C	69.1 C	122 C	44.8 C	99.8 C
130		3.21	0.988 C EMPC	3.58	7.22	1.47	4.35
131		0.147 U	0.226 U	0.207 U	0.185 U	0.188 U	0.141 U
132		0.857	0.819	0.999	0.945 C EMPC	1.72	0.871
133		2.55	1.60	1.64	3.42	1.11	2.83
134	134 + 143	0.143 C U	0.220 C U	0.450 C EMPC	0.185 C U	0.457 C EMPC	0.431 C
135	135 + 151 + 154	0.0574 C U	1.54 C	3.26 C	7.56 C	3.32 C	3.24 C
136		0.433	0.329	0.548	1.05	0.678	0.561 EMPC
137		6.57	9.31	5.97	10.9	4.34	10.1
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.236 C	0.203 C U	0.187 C	0.435 C EMPC	0.297 C EMPC	0.310 C EMPC
140	139 + 140	C139	C139	C139	C139	C139	C139
141		0.133 U	0.205 U	1.64	0.183 U	0.171 U	0.128 U
142		0.149 U	0.230 U	0.211 U	0.185 U	0.192 U	0.143 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		0.186 EMPC	0.174 EMPC	0.244	0.516	0.314 EMPC	0.235
145		0.0491 U	0.0499 U	0.0654 U	0.0711 U	0.0711 U	0.0502 U
146		30.9	26.1	27.0	55.0	13.9	46.9
147	147 + 149	4.72 C	3.96 C	6.55 C	9.04 C	9.22 C	6.66 C
148		0.0590 U	0.0587 U	0.0828 U	0.113	0.0900 U	0.0635 U
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.0491 U	0.0499 U	0.0626 U	0.0711 U	0.0680 U	0.0491 U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.0491 U	0.0499 U	0.0592 U	0.0711 U	0.0644 U	0.0491 U
153	153 + 168	122 C	201 C	151 C	322 C	76.0 C	220 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.150 EMPC	0.0499 U	0.0722 U	0.0820	0.0662 U	0.0518 U
156	156 + 157	13.8 C	26.3 C	16.9 C	28.0 C	13.6 C	25.7 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		0.898	0.612	1.44	2.55 EMPC	1.41 EMPC	1.40
159		0.157	0.172 U	0.158 U	0.221	0.144 U	0.123 EMPC
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.102 U	0.157 U	0.144 U	0.133 U	0.131 U	0.0975 U
162		0.973	1.28	0.820 EMPC	1.18	0.454 EMPC	1.42
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		0.108 U	0.166 U	0.153 U	0.137 U	0.139 U	0.104 U
165		0.201 EMPC	0.174 U	0.159 U	0.153 U	0.145 U	0.178
166	128 + 166	C128	C128	C128	C128	C128	C128
167		8.53	22.8	12.1	21.5	11.8	17.7
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.249 U	0.257 U	0.350 U	0.539 U	0.167 U	0.254 U
170		9.04	12.5	11.3	14.4	4.86	13.8
171	171 + 173	0.958 C EMPC	0.571 C	1.05 C	2.27 C	1.18 C EMPC	1.25 C
172		1.75	0.953	1.85	2.17	0.456	1.45
173	171 + 173	C171	C171	C171	C171	C171	C171
174		1.34	1.09 EMPC	2.33	2.37	0.855 EMPC	1.36
175		0.571	0.341 EMPC	0.595	0.925	0.203 EMPC	0.617
176		0.134 EMPC	0.156 EMPC	0.292 EMPC	0.474	0.345	0.164
177		8.44	4.28	10.6	19.1	3.60	11.6
178		3.88	1.81	3.77	7.59	1.92	4.27
179		0.599	0.549	1.06	2.48	1.17	0.911 EMPC
180	180 + 193	0.0610 C U	111 C	73.9 C	0.0766 C U	47.3 C	104 C
181		0.340	0.507	0.363	0.631	0.241	0.613 EMPC
182		0.0648 U	0.0788 U	0.167 EMPC	0.584	0.0719 U	0.0521 U
183	183 + 185	6.59 C	3.75 C	8.26 C	14.8 C	4.09 C	8.75 C
184		0.0910	0.0574 U	0.0500 U	0.0711 U	0.0524 U	0.0491 U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0519 U	0.0631 U	0.0500 U	0.0711 U	0.0576 U	0.0491 U
187		78.2	101	81.1	138	50.9	136
188		0.380	0.408	0.267 EMPC	0.354	0.219 EMPC	0.474
189		1.17	1.62 EMPC	1.26	1.55 EMPC	0.926	1.58
190		4.84	2.85	7.76	11.9	2.82	7.41
191		0.982	1.45	1.10	1.59	0.565 EMPC	1.49
192		0.0651 U	0.0791 U	0.0610 U	0.0798 U	0.0722 U	0.0523 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		6.30	7.03	6.69	6.53	2.14	8.18
195		2.18	3.96	3.12	3.95	1.67	4.16
196		4.04	6.38	4.03	4.69	2.51	5.90
197	197 + 200	0.407 C	0.298 C	0.500 C	0.533 C EMPC	0.504 C	0.440 C
198	198 + 199	11.1 C	9.40 C	12.1 C	12.9 C	4.20 C	13.4 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		1.79	2.67	1.85	2.77	1.45	3.00
202		1.87	0.890 EMPC	2.29	4.22	1.09	2.54
203		5.37	2.53	10.2	13.1	2.84	6.41
204		0.0509 U	0.0561 U	0.0543 U	0.0711 U	0.0564 U	0.0491 U
205		0.305	0.216	0.421	0.633	0.123	0.363
206		2.23	1.62	3.50	3.32	1.26	2.22
207		0.852	1.38	0.853 EMPC	0.931	0.763	1.27
208		1.42	1.01	1.84	1.84	0.541	1.64
209		2.17 EMPC	2.83	2.76	3.47	1.77	2.61

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	0.611 J	0.846 J	0.831 J	1.36 J	0.565 J	1.13 J
Total PCBs as Congeners (KM-based)	0.591 J	0.825 J	0.816 J	1.34 J	0.536 J	1.12 J
Total PCBs as Congeners (KM-based, capped)	0.591 J	0.825 J	0.816 J	1.34 J	0.536 J	1.12 J

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P19-CF 0802/91CF 2/19/2008	Forebay P20-CF 0802/92CF 2/19/2008	Forebay P21-CF 0802/92CF 2/19/2008	Reference P38/42-CF 0802/183/42 CF 2/28/2008	Reference P22-CF 0802/262CF 2/26/2008	Reference P33-CF 0802/233CF 2/26/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.161 U	0.182 U	0.142 U	0.176 U	0.130 U	0.156 U
2		0.106 EMPC	0.167 EMPC	0.123 U	0.186 U	0.138 U	0.186 EMPC
3		0.222 EMPC	0.261 U	0.130 U	0.156 U	0.186 U	0.188 EMPC
4		0.467 U	0.514 U	0.790 U	0.695 U	0.889 U	0.445 U
5		0.168 U	0.130 U	0.655 U	0.532 U	0.735 U	0.184 U
6		0.149 EMPC	0.251 U	0.573 U	0.466 U	0.644 U	0.164 U
7		0.153 U	0.118 U	0.576 U	0.468 U	0.647 U	0.168 U
8		0.477 U	0.889 U	0.514 U	0.627 U	0.577 U	0.682 U
9		0.150 U	0.116 U	0.574 U	0.467 U	0.645 U	0.162 U
10		0.155 U	0.120 U	0.569 U	0.463 U	0.639 U	0.163 U
11		49.4	48.2	49.7	64.3	15.1	35.8
12	12 + 13	0.168 C U	0.130 C U	0.627 C U	0.510 C U	0.705 C U	0.181 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.159 U	0.123 U	0.595 U	0.484 U	0.668 U	0.170 U
15		1.73 EMPC	1.57 EMPC	4.50 EMPC	2.12	0.998 U	1.87
16		0.397 EMPC	0.519 U	0.408 U	0.488 U	0.225 EMPC	0.497
17		0.274	0.524 EMPC	0.359 EMPC	0.578	0.188	0.614 EMPC
18	18 + 30	1.55 C U	1.52 C U	1.64 C U	1.40 C U	0.447 C U	1.28 C U
19		0.0967 U	0.119 U	0.145 U	0.142	0.0870 U	0.111
20	20 + 28	2.30 C U	3.10 C	2.53 C U	4.70 C	0.883 C U	3.94 C
21	21 + 33	0.386 C U	0.722 C U	0.482 C U	0.625 C U	0.310 C U	0.780 C U
22		0.386 EMPC	0.587 U	0.522	0.638	0.260	0.691
23		0.0855 U	0.0751 U	0.0952 U	0.0709 U	0.0750 U	0.0497 U
24		0.0830 U	0.0614 U	0.0797 U	0.0527 U	0.0633 U	0.0497 U
25		0.121 EMPC	0.105	0.0834 U	0.0720	0.0657 U	0.177
26	26 + 29	0.378 C U	0.414 C U	0.951 C	0.544 C	0.149 C U	0.460 C
27		0.109	0.0720	0.131 EMPC	0.0900	0.0590 U	0.0880
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.782 U	1.58 U	1.10 U	1.54 U	0.495 U	1.60 U
32		0.101 EMPC	0.270	0.168	0.240 U	0.118 EMPC	0.264 U
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0876 U	0.0770 U	0.0968 U	0.0721 U	0.0763 U	0.0497 U
35		0.254	0.147 EMPC	0.157 EMPC	0.408 EMPC	0.0790 U	0.112 EMPC
36		0.0831 U	0.0731 U	0.0890 U	0.177	0.0701 U	0.0497 U
37		2.37	2.81	6.25	4.39	1.02	3.32
38		0.0855 U	0.0752 U	0.0928 U	0.0691 U	0.0731 U	0.0497 U
39		0.0941 U	0.0828 U	0.103 U	0.0765 U	0.0809 U	0.0497 U
40	40 + 41 + 71	0.460 C EMPC	0.553 C	0.513 C	0.652 C U	0.277 C EMPC	0.594 C U
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.459 EMPC	0.564 EMPC	0.673 EMPC	0.460	0.187 U	0.510
43		0.105 U	0.0913 U	0.126 U	0.0900	0.0919 U	0.0742 U
44	44 + 47 + 65	3.98 C	3.41 C	4.45 C	2.87 C	1.05 C	2.30 C U
45	45 + 51	0.171 C	0.213 C	0.187 C EMPC	0.276 C EMPC	0.138 C	0.223 C
46		0.107 U	0.0930 U	0.118 U	0.0827 U	0.0657 U	0.0748 U
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.185 U	0.343 U	0.342 U	0.362	0.0890 U	0.365 EMPC
49	49 + 69	0.499 C	0.911 C EMPC	0.991 C	1.10 C U	0.368 C	1.05 C U
50	50 + 53	0.224 C EMPC	0.239 C	0.258 C EMPC	0.235 C	0.0800 C EMPC	0.266 C EMPC
51	45 + 51	C45	C45	C45	C45	C45	C45
52		2.03	2.63	2.93	2.94	0.872	2.36 U
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0692 U	0.0558 U	0.0742 U	0.0500 U	0.0567 U	0.0497 U
55		0.192 U	0.125 U	0.191 U	0.158 U	0.133 U	0.138 U
56		0.362 U	0.502 U	0.744 U	0.542	0.269 U	0.429 EMPC
57		0.173 U	0.112 U	0.182 U	0.148 U	0.126 U	0.127 U
58		0.188 U	0.122 U	0.203 U	0.152 U	0.141 U	0.128 U
59	59 + 62 + 75	0.156 C U	0.113 C U	0.128 C U	0.162 C EMPC	0.0568 C U	0.177 C
60		0.857	1.08	1.01	1.01	0.207 U	0.957
61	61 + 70 + 74 + 76	9.75 C	11.3 C	14.5 C	11.6 C	2.66 C U	9.41 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		1.10	1.59	1.69	1.20	0.612	1.06
64		0.321 U	0.536 U	0.599 U	0.653	0.247 U	0.718
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		10.3	10.5	17.6	11.9	2.43	7.92
67		0.162 U	0.130 EMPC	0.307 EMPC	0.152 EMPC	0.124 U	0.109 U
68		0.304 EMPC	0.342 EMPC	0.352	0.384	0.235 EMPC	0.446
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.165 U	0.108 U	0.167 U	0.145 U	0.116 U	0.121 U
73		0.0737 U	0.0644 U	0.0763 U	0.0536 U	0.0555 U	0.0526 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		2.67	3.38	3.66	2.88	1.30	2.39
78		0.196 U	0.127 U	0.204 U	0.154 U	0.142 U	0.138 U
79		0.343	0.338	0.368	0.141	0.115 U	0.155
80		0.168 U	0.109 U	0.163 U	0.133 U	0.113 U	0.123 U
81		0.218 U	0.211	0.250	0.175 U	0.135 U	0.176
82		0.139 EMPC	0.204 EMPC	0.257 EMPC	0.180	0.0680 EMPC	0.144
83	83 + 99	13.8 C	13.4 C	17.4 C	12.7 C	2.57 C	9.17 C
84		0.311 U	0.371 U	0.489 U	0.424	0.219 U	0.489
85	85 + 116 + 117	3.21 C	3.90 C EMPC	3.71 C	3.47 C	1.31 C	2.87 C
86	86 + 87 + 97 + 108 + 119 + 125	5.66 C	4.85 C	6.75 C	3.23 C	1.12 C U	2.99 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86			

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay P19-CF 0802/19/2008	Forebay P20-CF 0802/19/2008	Forebay P21-CF 0802/19/2008	Reference P35/42-CF 0802/18/36/42	Reference P22-CF 0802/26/2008	Reference P33-CF 0802/22/33CF
128	128 + 166	1.84 C	1.60 C	2.97 C	1.58 C	0.887 C EMPC	1.84 C
129	129 + 138 + 160 + 163	73.8 C	81.0 C	79.1 C	58.0 C	23.2 C	51.0 C
130		3.33	3.48	4.29	3.30	0.614	1.80
131		0.265 U	0.246 U	0.249 U	0.130 U	0.171 U	0.0961 U
132		1.35	1.36	1.98	1.08	0.407 U	1.18
133		1.84	2.00	1.95	1.69	0.574 EMPC	1.33
134	134 + 143	0.487 C EMPC	0.240 C U	0.249 C U	0.488 C	0.171 C U	0.277 C EMPC
135	135 + 151 + 154	5.73 C	4.19 C	6.96 C	4.01 C	0.856 C U	2.61 C
136		0.641	0.472 EMPC	0.867	0.454	0.246 U	0.403 EMPC
137		4.72	6.25	6.00	4.02	4.35	5.15
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.262 C EMPC	0.221 C U	0.419 C	0.361 C	0.156 C U	0.262 C EMPC
140	139 + 140	C139	C139	C139	C139	C139	C139
141		0.241 U	0.224 U	0.247 U	0.130 U	0.170 U	1.33
142		0.270 U	0.251 U	0.250 U	0.131 U	0.171 U	0.100 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		0.341	0.404	0.453	0.374	0.0800	0.259
145		0.0621 U	0.0498 U	0.0572 U	0.0500 U	0.0494 U	0.0497 U
146		24.8	32.5	27.9	22.7	9.49	23.5
147	147 + 149	9.47 C	8.93 C	11.0 C	5.57 C	1.72 C	5.76 C
148		0.0786 U	0.0610 U	0.0712 U	0.0500 U	0.0494 U	0.0594 U
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.0594 U	0.0498 U	0.0541 U	0.0500 U	0.0494 U	0.0497 U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.0563 U	0.0498 U	0.0513 U	0.0500 U	0.0494 U	0.0497 U
153	153 + 168	158 C	192 C	181 C	113 C	77.4 C	115 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.111 EMPC	0.0660	0.113 EMPC	0.0500 U	0.0494 U	0.0497 U
156	156 + 157	13.9 C	19.2 C	19.1 C	12.7 C	14.3 C	14.7 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		2.07	1.37 EMPC	2.35	1.52	0.216	1.16
159		0.202 U	0.188 U	0.191 U	0.100 U	0.132 U	0.0770
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.184 U	0.171 U	0.179 U	0.0936 U	0.123 U	0.0693 U
162		0.616	0.820 EMPC	0.741 EMPC	0.470	0.389 EMPC	0.572
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		0.195 U	0.182 U	0.721 EMPC	0.514	0.127 U	0.308
165		0.204 U	0.189 U	0.206 U	0.108 U	0.142 U	0.0850
166	128 + 166	C128	C128	C128	C128	C128	C128
167		12.0	14.1	14.4	8.88	9.80	9.44
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.240 U	0.298 U	0.265 U	0.126 U	0.180 U	0.158 U
170		6.75	8.53	9.35	7.25	6.33	7.41
171	171 + 173	1.50 C EMPC	1.25 C EMPC	2.69 C	1.59 C	0.341 C	1.06 C
172		0.835 EMPC	0.829	1.18	1.06	0.314 EMPC	0.750
173	171 + 173	C171	C171	C171	C171	C171	C171
174		1.18	1.01	2.02	1.53	0.395	0.943
175		0.475 EMPC	0.420 EMPC	0.647 EMPC	0.372	0.141 EMPC	0.254 EMPC
176		0.376 EMPC	0.335 EMPC	0.648	0.265	0.0870 EMPC	0.227
177		9.27	11.5	12.5	10.0	2.34	5.32
178		4.25	3.43	5.11	4.64	0.892	2.18
179		1.53	0.765	2.41	0.916	0.253	0.681
180	180 + 193	54.2 C	66.8 C	73.8 C	47.6 C	63.0 C	52.3 C
181		0.272 EMPC	0.430	0.445 EMPC	0.247	0.323 EMPC	0.325
182		0.294 EMPC	0.0717 U	0.0912 U	0.0571 U	0.0601 U	0.242
183	183 + 185	7.93 C	8.16 C	11.9 C	7.37 C	2.89 C	5.09 C
184		0.0830 EMPC	0.0570	0.103	0.0500 U	0.0494 U	0.0497 U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0632 U	0.0575 U	0.0744 U	0.0500 U	0.0494 U	0.0497 U
187		67.1	87.6	77.7	69.8	27.8	65.6
188		0.197 EMPC	0.237	0.383 EMPC	0.197	0.153	0.159
189		0.923	1.09 EMPC	1.23	0.767	1.24	0.956
190		5.92	6.14	7.38	4.95	2.39	3.57
191		0.684	0.867	0.814	0.651	0.688 EMPC	0.740
192		0.0792 U	0.0720 U	0.0902 U	0.0565 U	0.0595 U	0.0509 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		3.41	4.08	4.48	3.38	2.79	3.76
195		2.43	3.11	3.38	2.28	2.34 EMPC	2.33
196		2.60	3.24	4.02	2.42	3.20	2.87
197	197 + 200	0.364 C	0.396 C	0.979 C	0.421 C EMPC	0.215 C EMPC	0.360 C
198	198 + 199	6.57 C	7.03 C	7.98 C	7.41 C	2.93 C	6.53 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		1.70	2.09	2.35	1.56	0.705 EMPC	1.23
202		2.16	1.65	2.88	2.45	0.575 EMPC	0.948
203		6.31	5.08	8.24	5.50	1.79	2.70
204		0.0670 U	0.0572 U	0.0510 U	0.0500 U	0.0494 U	0.0497 U
205		0.260	0.242	0.428	0.322	0.162	0.238
206		1.75	1.56	2.51	2.25	0.714	1.62
207		0.609	0.816	1.17	0.606	0.808	0.787
208		0.977 EMPC	1.10	1.47	1.34	0.442	0.999
209		2.16	2.41	3.43	2.07	2.95	2.60

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	0.792 J	0.936 J	0.990 J	0.729 J	0.391 J	0.647 J
Total PCBs as Congeners (KM-based)	0.766 J	0.911 J	0.967 J	0.71868 J	0.366 J	0.634 J
Total PCBs as Congeners (KM-based, capped)	0.766 J	0.911 J	0.967 J	0.71868 J	0.366 J	0.634 J

**Notes:**

C = Concentration represents coeluting congeners.<br

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P72-CF 0803037CF 3/3/2008	Reference P73-CF 0803037CF 3/3/2008	Reference P74-CF 08030374CF 3/3/2008	Reference P75-CF 08030375CF 3/3/2008	Reference P76-CF 08030376CF 3/3/2008
Individual Congeners in pg/g (ng/kg), wet weight						
1		0.152 U	0.191 U	0.140 U	0.100 U	0.152 U
2		0.665	0.474	0.0900	0.457 EMPC	0.268
3		0.109 EMPC	0.213	0.175	0.122 EMPC	0.114
4		0.367 U	0.434	0.313	0.648 U	0.320
5		0.257 U	0.229 U	0.165 U	0.531 U	0.249 U
6		0.228 U	0.204 U	0.147 U	0.465 U	0.221 U
7		0.234 U	0.209 U	0.150 U	0.467 U	0.227 U
8		0.588	0.559	0.334	0.417 U	0.639
9		0.227 U	0.202 U	0.146 U	0.466 U	0.220 U
10		0.227 U	0.202 U	0.146 U	0.462 U	0.220 U
11		57.0	40.0	30.9	50.5	40.5
12	12 + 13	0.253 C U	0.226 C U	0.163 C U	0.509 C U	0.245 C U
13	12 + 13	C12	C12	C12	C12	C12
14		0.237 U	0.212 U	0.153 U	0.483 U	0.230 U
15		1.35	1.24	0.891	0.721 U	0.782
16		0.284	0.264	0.298	0.523	0.249
17		0.317	0.281 EMPC	0.220	0.407	0.376
18	18 + 30	0.756 C U	0.804 C U	0.733 C U	1.29 C U	0.836 C U
19		0.126	0.140 EMPC	0.0717 U	0.0991 U	0.0780 EMPC
20	20 + 28	1.80 C U	1.95 C U	2.54 C	2.43 C	1.32 C U
21	21 + 33	0.464 C U	0.364 C U	0.379 C U	0.405 C U	0.380 C U
22		0.342	0.344	0.297	0.604	0.285
23		0.0683 U	0.0717 U	0.0490 U	0.0882 U	0.0570 U
24		0.0534 U	0.0587 U	0.0490 U	0.0782 U	0.0550 U
25		0.0770	0.0603 U	0.0750 EMPC	0.0772 U	0.0750
26	26 + 29	0.267 C	0.270 C	0.208 C	0.274 C EMPC	0.228 C
27		0.0496 U	0.0546 U	0.0650	0.0870 EMPC	0.0511 U
28	20 + 28	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18
31		0.904 U	0.779 U	0.705 U	0.874 U	0.725 U
32		0.178 U	0.229 U	0.129 U	0.137 U	0.205 U
33	21 + 33	C21	C21	C21	C21	C21
34		0.0659 U	0.0800 EMPC	0.0490 U	0.0897 U	0.0550 U
35		0.348	0.384	0.0502 U	0.251	0.281 EMPC
36		0.116 EMPC	0.143	0.0490 U	0.0913 U	0.0740 EMPC
37		2.40	3.36	2.38	2.68	1.33
38		0.0667 U	0.0699 U	0.0490 U	0.0859 U	0.0557 U
39		0.0689 U	0.0723 U	0.0490 U	0.0951 U	0.0575 U
40	40 + 41 + 71	0.500 C U	0.412 C U	0.433 C U	0.505 C U	0.441 C U
41	40 + 41 + 71	C40	C40	C40	C40	C40
42		0.240 EMPC	0.255 EMPC	0.433 EMPC	0.794	0.267
43		0.0705 U	0.0838 U	0.0620 U	0.139 U	0.0770 U
44	44 + 47 + 65	1.82 C U	1.63 C U	2.45 C	3.92 C	1.43 C U
45	45 + 51	0.210 C	0.211 C EMPC	0.141 C	0.243 C	0.181 C
46		0.0710 U	0.0844 U	0.0625 U	0.130 U	0.0776 U
47	44 + 47 + 65	C44	C44	C44	C44	C44
48		0.250 EMPC	0.179 EMPC	0.239	0.339	0.189 EMPC
49	49 + 69	0.722 C U	0.504 C U	0.722 C U	1.06 C U	0.535 C U
50	50 + 53	0.124 C EMPC	0.195 C EMPC	0.173 C EMPC	0.281 C EMPC	0.132 C EMPC
51	45 + 51	C45	C45	C45	C45	C45
52		1.84 U	1.36 U	1.87 U	2.23 U	1.39 U
53	50 + 53	C50	C50	C50	C50	C50
54		0.0497 U	0.0820	0.0490 U	0.0745 U	0.0497 U
55		0.160 U	0.132 U	0.107 U	0.168 U	0.115 U
56		0.423	0.365	0.416	0.543 EMPC	0.266
57		0.147 U	0.122 U	0.0987 U	0.158 U	0.106 U
58		0.149 U	0.123 U	0.0998 U	0.162 U	0.107 U
59	59 + 62 + 75	0.102 C EMPC	0.0760 C EMPC	0.112 C EMPC	0.189 C	0.104 C
60		0.392	0.583	1.56	1.18 EMPC	0.324
61	61 + 70 + 74 + 76	7.41 C	8.95 C	10.3 C	12.3 C	4.04 C
62	59 + 62 + 75	C59	C59	C59	C59	C59
63		1.19	1.23	1.22	1.19	0.811
64		0.480	0.379	0.483	0.678 EMPC	0.358
65	44 + 47 + 65	C44	C44	C44	C44	C44
66		5.78	8.94	13.6	12.9	3.81
67		0.126 U	0.104 U	0.100 EMPC	0.142 U	0.0909 U
68		0.444	0.414	0.405	0.352	0.215
69	49 + 69	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40
72		0.140 U	0.116 U	0.0939 U	0.154 U	0.101 U
73		0.0499 U	0.0593 U	0.0490 U	0.0841 U	0.0545 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
77		2.62	3.29	2.99	2.57	1.87
78		0.160 U	0.132 U	0.107 U	0.164 U	0.115 U
79		0.139 EMPC	0.208	0.208	0.246 EMPC	0.0941 U
80		0.143 U	0.118 U	0.0960 U	0.142 U	0.103 U
81		0.169 U	0.161 EMPC	0.167	0.194 U	0.127 U
82		0.247 EMPC	0.166	0.0707 U	1.31 U	0.0854 U
83	83 + 99	5.76 C	9.09 C	16.3 C	16.2 C	4.44 C
84		0.421	0.272	0.365	1.30 U	0.373
85	85 + 116 + 117	3.64 C	3.53 C	3.68 C	3.51 C	2.47 C
86	86 + 87 + 97 + 108 + 119 + 125	2.03 C	2.21 C	3.49 C	6.42 C	1.63 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86
88	88 + 91	0.319 C	0.325 C	0.403 C	1.16 C U	0.260 C
89		0.0601 U	0.106 U	0.0655 U	1.22 U	0.0791 U
90	90 + 101 + 113	4.97 C	4.86 C	6.91 C	9.00 C	3.68 C
91	88 + 91	C88	C88	C88	C88	C88
92		0.781	0.546	0.926	1.19 U	0.546
93	93 + 95 + 98 + 100 + 102	2.31 C	2.30 C	3.17 C	5.36 C	1.86 C U
94		0.0614 U	0.108 U	0.0668 U	1.25 U	0.0807 U
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
96		0.0496 U	0.0512 U	0.0490 U	0.344 U	0.0497 U
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
99	83 + 99	C83	C83	C83	C83	C83
100	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
101	90 + 101 + 113	C90	C90	C90	C90	C90

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P72-CF 08030372CF 3/3/2008	Reference P73-CF 08030373CF 3/3/2008	Reference P74-CF 08030374CF 3/3/2008	Reference P75-CF 08030375CF 3/3/2008	Reference P76-CF 08030376CF 3/3/2008
128	128 + 166	1.46 C	1.46 C	2.70 C	2.94 C	1.19 C
129	129 + 138 + 160 + 163	59.5 C	62.7 C	61.4 C	78.4 C	37.8 C
130		2.94	3.43	2.66	3.00	1.58
131		0.124 U	0.137 U	0.0754 U	0.200 U	0.0938 U
132		0.919	0.957	1.08	1.88	0.655
133		1.99	1.85	1.21	1.92	0.878
134	134 + 143	0.229 C	0.438 C	0.312 C	0.674 C	0.183 C EMPC
135	135 + 151 + 154	2.80 C	3.23 C	2.78 C	5.26 C	1.67 C
136		0.435	0.401	0.425	0.679	0.340
137		5.78	5.84	5.10	7.00	3.80
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
139	139 + 140	0.158 C	0.258 C	0.339 C	0.354 C	0.105 C
140	139 + 140	C139	C139	C139	C139	C139
141		1.00	0.132 U	0.0731 U	0.199 U	0.0909 U
142		0.130 U	0.142 U	0.0786 U	0.201 U	0.0977 U
143	134 + 143	C134	C134	C134	C134	C134
144		0.141 EMPC	0.201 EMPC	0.261 EMPC	0.343	0.131 EMPC
145		0.0496 U	0.0598 U	0.0490 U	0.0591 U	0.0497 U
146		27.9	25.2	21.6	29.4	16.5
147	147 + 149	4.56 C	4.97 C	6.85 C	10.1 C	3.54 C
148		0.0496 U	0.0764 U	0.0511 U	0.0736 U	0.0521 U
149	147 + 149	C147	C147	C147	C147	C147
150		0.0496 U	0.0574 U	0.0490 U	0.0559 U	0.0497 U
151	135 + 151 + 154	C135	C135	C135	C135	C135
152		0.0496 U	0.0547 U	0.0490 U	0.0531 U	0.0497 U
153	153 + 168	115 C	142 C	174 C	199 C	83.2 C
154	135 + 151 + 154	C135	C135	C135	C135	C135
155		0.0550 EMPC	0.0630 EMPC	0.0570 EMPC	0.0524 U	0.0497 U
156	156 + 157	17.3 C	16.9 C	18.8 C	22.2 C	12.3 C
157	156 + 157	C156	C156	C156	C156	C156
158		0.855	0.957	1.88	2.25	0.410
159		0.0966 U	0.106 U	0.0586 U	0.154 U	0.0729 U
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
161		0.0898 U	0.0985 U	0.0544 U	0.144 U	0.0677 U
162		0.847	0.642 EMPC	0.522 EMPC	0.679	0.540 EMPC
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
164		0.240	0.0989 U	0.357	0.345 EMPC	0.264 EMPC
165		0.102 U	0.118 EMPC	0.0670 EMPC	0.175	0.0771 U
166	128 + 166	C128	C128	C128	C128	C128
167		10.6	10.6	13.6	16.7	8.46
168	153 + 168	C153	C153	C153	C153	C153
169		0.0992 U	0.154 U	0.103 U	0.171 U	0.105 U
170		12.6	13.2	7.82	7.37	6.92
171	171 + 173	0.879 C	1.33 C	1.32 C	2.00 C	0.560 C EMPC
172		1.30 EMPC	1.17	0.535	0.414	0.551
173	171 + 173	C171	C171	C171	C171	C171
174		1.26	1.04	0.802	0.888	0.870
175		0.391	0.493	0.316	0.476	0.206
176		0.172 EMPC	0.233	0.324	0.526	0.108 EMPC
177		8.23	10.9	7.16	9.14	4.52
178		3.61	4.15	2.71	5.19	1.45
179		0.504 EMPC	0.474	0.750	1.48	0.478 EMPC
180	180 + 193	59.1 C	61.3 C	55.5 C	74.1 C	39.2 C
181		0.393 EMPC	0.343	0.324	0.381 EMPC	0.267
182		0.0496 U	0.0718 U	0.0490 U	0.0807 U	0.0670 U
183	183 + 185	6.19 C	7.93 C	7.07 C	9.00 C	3.55 C
184		0.0496 U	0.0541 U	0.0490 U	0.0591 U	0.0505 U
185	183 + 185	C183	C183	C183	C183	C183
186		0.0496 U	0.0585 U	0.0490 U	0.0658 U	0.0546 U
187		75.8	69.5	55.2	87.9	47.6
188		0.147	0.275	0.214	0.238	0.163
189		1.33	1.19	1.04	1.25	0.851
190		5.05	5.69	5.00	5.95	3.09
191		0.750	0.639	0.727	0.997	0.304
192		0.0496 U	0.0726 U	0.0490 U	0.0798 U	0.0678 U
193	180 + 193	C180	C180	C180	C180	C180
194		6.01	5.36	3.88	3.73	3.47
195		3.41	3.75	3.38	2.76	1.97
196		3.28	3.72	3.42	3.07	2.06
197	197 + 200	0.395 C	0.359 C	0.521 C	0.565 C	0.140 C
198	198 + 199	8.55 C	8.71 C	5.10 C	6.56 C	3.64 C
199	198 + 199	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197
201		1.45	1.74	1.50	1.83	0.856
202		1.31	1.88	1.84	2.76	0.635
203		4.17	5.11	5.08	4.41	2.46
204		0.0496 U	0.0494 U	0.0490 U	0.0570 U	0.0511 U
205		0.335	0.300	0.287	0.286	0.156
206		2.11	2.18	1.63	1.31	1.06
207		0.787	0.789 EMPC	0.772 EMPC	0.760	0.414
208		1.24	1.18	0.799	0.735	0.506
209		2.48	2.46	2.43	1.82	1.68
<b>Total PCBs as Congeners in ug/kg, wet weight</b>						
Total PCBs as Congeners (full EMPC/full SDL)	0.706 J	0.746 J	0.783 J	0.984 J	0.469 J	
Total PCBs as Congeners (KM-based)	0.692 J	0.735 J	0.774 J	0.952 J	0.456 J	
Total PCBs as Congeners (KM-based, capped)	0.692 J	0.735 J	0.774 J	0.952 J	0.456 J	

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P78-CF 08030379CF 3/3/2008	Reference P79-CF 08030379CF 3/3/2008	Reference P82-CF 08030382CF 3/3/2008	Reference P90-CF 08031290CF 3/12/2008	Reference P91-CF 08031291CF 3/12/2008
Individual Congeners in pg/g (ng/kg), wet weight						
1		0.228:U	0.238:U	0.127:U	0.0970:U	0.132:U
2		0.235 EMPC	0.324:	0.130:	0.0790:	0.130:
3		0.204:	0.185:	0.166 EMPC	0.106:	0.176:EMPC
4		0.627:	0.544:	0.337:	0.262:U	0.297:
5		0.197:U	0.260:U	0.215:U	0.251:U	0.113:U
6		0.324:	0.273:	0.191:U	0.223:U	0.104:U
7		0.179:U	0.237:U	0.195:U	0.228:U	0.106:U
8		1.05:	0.937:	0.433:	0.380:	0.418:
9		0.174:U	0.229:U	0.189:U	0.221:U	0.101:U
10		0.174:U	0.230:U	0.190:U	0.222:U	0.100:U
11		42.9:	71.1:	60.0:	25.9:	51.0:
12	12 + 13	0.194:C U	0.256:C U	0.212:C U	0.247:C U	0.119:C U
13	12 + 13	C12	C12	C12	C12	C12
14		0.182:U	0.240:U	0.199:U	0.232:U	0.110:U
15		0.898:	1.41:	1.35:	0.527:	1.21:
16		0.365:	0.349:	0.414:	0.263:	0.320:
17		0.516:	0.524:	0.367:	0.357:	0.332:
18	18 + 30	1.30:C U	1.49:C U	1.29:C U	0.767:C U	1.34:C U
19		0.150:	0.138:EMPC	0.0980:	0.0760:	0.0696:U
20	20 + 28	1.93:C U	2.59:C	4.47:C	2.65:C	2.75:C
21	21 + 33	0.622:C U	0.671:C U	0.554:C U	0.433:C U	0.336:C U
22		0.467:	0.369:	0.413:EMPC	0.384:	0.328:
23		0.0536:U	0.0721:U	0.0675:U	0.0570:U	0.0644:U
24		0.0498:U	0.0529:U	0.0497:U	0.0500:U	0.0517:U
25		0.106:EMPC	0.101:	0.0568:U	0.0710:	0.0660:
26	26 + 29	0.311:C	0.500:C	0.355:C	0.195:C	0.252:C
27		0.0660:	0.0760:EMPC	0.0940:EMPC	0.0498:U	0.0690:
28	20 + 28	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18
31		1.30:U	1.18:U	1.29:U	0.833:U	0.866:U
32		0.324:U	0.203:U	0.160:U	0.177:U	0.120:U
33	21 + 33	C21	C21	C21	C21	C21
34		0.0516:U	0.0695:U	0.0651:U	0.0549:U	0.0633:U
35		0.431:	0.854:	0.152:EMPC	0.0647:U	0.186:
36		0.0539:U	0.491:	0.0679:U	0.0573:U	0.0635:U
37		1.96:	3.13:	4.20:	1.96:	4.04:
38		0.0523:U	0.0704:U	0.0658:U	0.0556:U	0.0633:U
39		0.0540:U	0.0728:U	0.0681:U	0.0575:U	0.0653:U
40	40 + 41 + 71	0.552:C U	0.536:C U	0.657:C U	0.590:C U	0.411:C U
41	40 + 41 + 71	C40	C40	C40	C40	C40
42		0.348:EMPC	0.342:	0.762:	0.608:	0.841:
43		0.0640:U	0.0859:U	0.0871:U	0.0837:U	0.0782:U
44	44 + 47 + 65	1.68:C U	2.42:C	4.31:C	2.24:C U	4.11:C
45	45 + 51	0.287:C	0.227:C EMPC	0.262:C EMPC	0.234:C EMPC	0.157:C EMPC
46		0.0710:	0.0866:U	0.0877:U	0.0843:U	0.0789:U
47	44 + 47 + 65	C44	C44	C44	C44	C44
48		0.271:	0.267:	0.394:EMPC	0.301:	0.272:EMPC
49	49 + 69	0.658:C U	0.872:C U	1.14:C U	0.852:C U	0.738:C U
50	50 + 53	0.146:C EMPC	0.198:C	0.271:C	0.171:C	0.227:C
51	45 + 51	C45	C45	C45	C45	C45
52		1.79:U	2.31:U	3.57:	1.87:U	2.06:U
53	50 + 53	C50	C50	C50	C50	C50
54		0.0498:U	0.0529:U	0.0497:U	0.0498:U	0.0492:U
55		0.0898:U	0.141:U	0.160:U	0.166:U	0.167:U
56		0.405:	0.428:	0.501:	0.360:	0.436:
57		0.0828:U	0.130:U	0.147:U	0.153:U	0.153:U
58		0.0837:U	0.132:U	0.149:U	0.155:U	0.150:U
59	59 + 62 + 75	0.0960:C	0.138:C	0.183:C	0.169:C EMPC	0.166:C
60		0.468:EMPC	0.764:	2.63:	1.47:	1.55:
61	61 + 70 + 74 + 76	5.99:C	9.99:C	26.6:C	10.6:C	17.6:C
62	59 + 62 + 75	C59	C59	C59	C59	C59
63		0.752:	1.49:	2.13:	0.626:	1.34:
64		0.467:	0.596:	0.671:	0.566:EMPC	0.429:
65	44 + 47 + 65	C44	C44	C44	C44	C44
66		5.43:	9.40:	27.9:	14.4:	16.5:
67		0.0710:U	0.151:	0.203:	0.131:U	0.201:EMPC
68		0.232:	0.524:	0.745:	0.327:EMPC	0.403:
69	49 + 69	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40
72		0.0787:U	0.124:U	0.191:	0.145:U	0.143:U
73		0.0498:U	0.0609:U	0.0617:U	0.0592:U	0.0550:U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
77		2.09:	3.49:	4.66:	1.87:	3.80:
78		0.0897:U	0.141:U	0.159:U	0.166:U	0.164:U
79		0.114:EMPC	0.264:	0.434:	0.176:EMPC	0.387:
80		0.0805:U	0.126:U	0.143:U	0.149:U	0.143:U
81		0.104:U	0.162:U	0.250:EMPC	0.204:U	0.188:U
82		0.187:	0.153:EMPC	0.212:	0.0887:U	0.170:EMPC
83	83 + 99	5.29:C	10.6:C	41.2:C	24.3:C	20.3:C
84		0.365:	0.470:	0.600:	0.432:	0.396:
85	85 + 116 + 117	2.44:C	4.25:C	7.65:C	2.14:C	4.15:C
86	86 + 87 + 97 + 108 + 119 + 125	1.61:C	3.53:C	10.2:C	3.29:C	6.91:C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86
88	88 + 91	0.263:C	0.404:C	0.657:C	0.527:C	0.699:C EMPC
89		0.0653:U	0.0734:U	0.0927:U	0.0822:U	0.0955:U
90	90 + 101 + 113	3.55:C	7.01:C	17.1:C	5.30:C	9.27:C
91	88 + 91	C88	C88	C88	C88	C88
92		0.515:	1.39:	2.40:	0.693:EMPC	1.25:
93	93 + 95 + 98 + 100 + 102	1.88:C U	3.47:C	6.93:C	2.75:C	5.56:C
94		0.0666:U	0.0749:U	0.0947:U	0.0839:U	0.0971:U
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
96		0.0498:U	0.0496:U	0.0497:U	0.0498:U	0.0492:U
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
99	83 + 99	C83	C83	C83	C83</	

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P78-CF 08030379CF 3/3/2008	Reference P78-CF 08030379CF 3/3/2008	Reference P82-CF 08030382CF 3/3/2008	Reference P90-CF 08031290CF 3/12/2008	Reference P94-CF 08031291CF 3/12/2008
128	128 + 166	0.835 C	2.66 C	3.35 C	2.56 C	2.85 C
129	129 + 138 + 160 + 163	38.9 C	74.5 C	167 C	67.9 C	91.9 C
130		2.07	4.19	8.80	2.09 EMPC	4.86
131		0.100 U	0.117 U	0.168 U	0.0908 U	0.159 EMPC
132		0.763	0.965 EMPC	2.19	1.16	2.32
133		1.14	2.11	3.55	0.786	2.12
134	134 + 143	0.180 C	0.443 C	0.580 C	0.355 C EMPC	0.358 C
135	135 + 151 + 154	2.13 C	4.33 C	8.38 C	2.25 C	5.58 C
136		0.435 EMPC	0.597	0.701	0.476	0.545
137		4.02	6.47	14.5	8.45	5.64
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
139	139 + 140	0.214 C	0.277 C EMPC	0.653 C	0.296 C EMPC	0.347 C
140	139 + 140	C139	C139	C139	C139	C139
141		0.0973 U	0.113 U	0.163 U	0.0680 U	0.923 EMPC
142		0.105 U	0.122 U	0.175 U	0.0946 U	0.158 U
143	134 + 143	C134	C134	C134	C134	C134
144		0.137	0.284 EMPC	0.994	0.205 EMPC	0.487
145		0.0498 U	0.0496 U	0.0497 U	0.0498 U	0.0595 U
146		17.2	31.9	66.0	19.0	31.0
147	147 + 149	3.72 C	6.69 C	15.9 C	5.17 C	12.0 C
148		0.0498 U	0.0579 U	0.0550 U	0.0514 U	0.0753 U
149	147 + 149	C147	C147	C147	C147	C147
150		0.0498 U	0.0496 U	0.0497 U	0.0498 U	0.0550 U
151	135 + 151 + 154	C135	C135	C135	C135	C135
152		0.0498 U	0.0496 U	0.0497 U	0.0498 U	0.0527 U
153	153 + 168	90.6 C	155 C	472 C	323 C	204 C
154	135 + 151 + 154	C135	C135	C135	C135	C135
155		0.0498 U	0.0560 EMPC	0.0840 EMPC	0.0498 U	0.0980
156	156 + 157	13.0 C	18.8 C	39.1 C	29.6 C	20.4 C
157	156 + 157	C156	C156	C156	C156	C156
158		0.537	1.58	3.55	2.29	2.14
159		0.0870	0.133 EMPC	0.172 EMPC	0.0730 EMPC	0.117 U
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
161		0.0725 U	0.0844 U	0.122 U	0.0655 U	0.104 U
162		0.478	0.851 EMPC	1.48	0.464	0.895
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
164		0.0728 U	0.525	1.17 EMPC	0.0658 U	0.377 EMPC
165		0.0825 U	0.141 EMPC	0.138 U	0.0746 U	0.135 EMPC
166	128 + 166	C128	C128	C128	C128	C128
167		8.16	11.2	30.1	27.3	13.4
168	153 + 168	C153	C153	C153	C153	C153
169		0.0911 U	0.114 U	0.200 U	0.223 U	0.237 U
170		6.83	14.5	22.0	7.97	10.7
171	171 + 173	1.02 C	1.50 C	2.96 C	2.87 C	2.60 C
172		0.632	1.42	2.50	0.262 EMPC	0.808
173	171 + 173	C171	C171	C171	C171	C171
174		0.777	1.69	2.36	0.846 EMPC	0.949
175		0.260	0.497	0.990	0.214 EMPC	0.578 EMPC
176		0.158	0.309	0.577	0.298 EMPC	0.665
177		6.63	11.1	19.9	4.96	18.2
178		2.81	4.35	8.53	2.81	5.70
179		0.387	1.05	0.970	0.608	1.41
180	180 + 193	41.9 C	70.1 C	145 C	98.6 C	71.1 C
181		0.303	0.457	0.789 EMPC	0.409	0.389 EMPC
182		0.0498 U	0.0563 U	0.0725 U	0.0589 U	0.0860 U
183	183 + 185	4.61 C	8.46 C	22.7 C	15.0 C	12.4 C
184		0.0498 U	0.0496 U	0.0546 U	0.0498 U	0.0621 U
185	183 + 185	C183	C183	C183	C183	C183
186		0.0498 U	0.0496 U	0.0591 U	0.0498 U	0.0726 U
187		47.4	85.3	167	53.4	83.7
188		0.132	0.189	0.268	0.234	0.204 EMPC
189		0.907	1.31	2.20	1.29	1.14 EMPC
190		3.11	7.28	12.9	4.71	7.11
191		0.452	0.996	2.02	1.61	0.641 EMPC
192		0.0498 U	0.0569 U	0.0734 U	0.0596 U	0.0850 U
193	180 + 193	C180	C180	C180	C180	C180
194		2.90	6.15	9.42	2.89	3.96
195		2.28	3.87	5.80	3.45	3.94
196		2.31	4.18	6.28	3.85	3.26
197	197 + 200	0.296 C	0.479 C	0.713 C	0.827 C	0.638 C
198	198 + 199	4.93 C	9.03 C	14.9 C	3.19 C	7.24 C
199	198 + 199	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197
201		1.26	1.84	2.85	1.15	2.16
202		1.27	1.98	2.91	1.42 EMPC	2.62
203		2.70	8.67	11.8	4.45	5.92
204		0.0498 U	0.0496 U	0.0514 U	0.0499 U	0.0661 U
205		0.207 EMPC	0.378	0.710	0.139 EMPC	0.380
206		1.14	2.76	3.22	1.07	1.83
207		0.599	0.766	1.27	0.849	0.892
208		0.669	1.23	1.40	0.449 EMPC	1.06
209		2.00	2.50	2.95	1.72	2.23
<b>Total PCBs as Congeners in ug/kg, wet weight</b>						
Total PCBs as Congeners (full EMPC/full SDL)	0.510 J	0.889 J	1.96 J	1.14 J	1.03 J	
Total PCBs as Congeners (KM-based)	0.496 J	0.876 J	1.94 J	1.12 J	1.02 J	
Total PCBs as Congeners (KM-based, capped)	0.496 J	0.876 J	1.94 J	1.12 J	1.02 J	

**Notes:**

C = Concentration represents coeluting congeners.  
U = The analyte was not detected above the RDL.  
J = The reported value is an estimate.  
UJ = The analyte was not detected. The RDL is an estimate.  
ng/kg = nanogram/kilogram  
ug/kg = micrograms/kilogram  
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
RDL = Reported detection limit  
KM-based = Kaplan-Meier-based with Efron's bias correction  
KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P92-CF 0803129CF 3/12/2008	Reference P94-CF 0803129CF 3/12/2008	Reference P98-CF 0803129CF 3/12/2008	Reference P100-CF 080312100C F 3/12/2008	Forebay - Goose Island P10 090429110C F 4/29/2009
Individual Congeners in pg/g (ng/kg), wet weight						
1		0.341 U	0.162 U	0.145 U	0.135 U	0.201 U
2		0.327 EMPC	1.14	0.171	0.492	0.209 U
3		0.936	0.238	0.166	0.191	0.258 U
4		0.610 U	0.410	0.280	0.369	1.29 U
5		0.415 U	0.165 U	0.119 U	0.123 U	0.703 U
6		0.383 U	0.164 EMPC	0.110 U	0.152 EMPC	0.639 U
7		0.390 U	0.188	0.112 U	0.122	0.657 U
8		0.892 EMPC	0.718	0.414	0.586	0.600 U
9		0.369 U	0.147 U	0.106 U	0.109 U	0.634 U
10		0.369 U	0.147 U	0.105 U	0.109 U	0.626 U
11		37.3	61.9	28.1	58.0	19.8
12	12 + 13	0.436 C U	0.174 C U	0.125 C U	0.129 C U	0.724 C U
13	12 + 13	C12	C12	C12	C12	C12
14		0.403 U	0.160 U	0.115 U	0.119 U	0.687 U
15		1.00 EMPC	1.00	0.932	1.24	0.914 U
16		0.326 U	0.323	0.214	0.407	0.292
17		0.463 EMPC	0.424	0.202	0.452	0.295 EMPC
18	18 + 30	0.854 C U	1.02 C U	0.611 C U	1.31 C U	0.655 C EMPC
19		0.269 U	0.101	0.117 EMPC	0.117 EMPC	0.214 U
20	20 + 28	1.68 C U	1.79 C U	1.15 C U	2.60 C	2.23 C
21	21 + 33	0.582 C U	0.552 C U	0.311 C U	0.439 C U	0.460 C EMPC
22		0.430	0.431	0.266	0.433	0.566 EMPC
23		0.215 U	0.0928 U	0.0604 U	0.0513 U	0.115 U
24		0.201 U	0.0670 U	0.0577 U	0.0496 U	0.104 U
25		0.187 U	0.119	0.0650	0.100	0.117
26	26 + 29	0.263 C	0.303 C EMPC	0.193 C	0.375 C	0.348 C
27		0.189 U	0.0652 U	0.0542 U	0.0660	0.0930 U
28	20 + 28	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18
31		1.03 U	1.06 U	0.553 U	0.911 U	1.09
32		0.255 U	0.251 U	0.0990 U	0.221 U	0.132
33	21 + 33	C21	C21	C21	C21	C21
34		0.212 U	0.0912 U	0.0594 U	0.0505 U	0.116 U
35		0.249 U	0.650	0.171	0.389	0.136 U
36		0.212 U	0.231	0.0596 U	0.112 EMPC	0.119 U
37		1.60	2.06	2.18	3.58	2.59
38		0.212 U	0.0912 U	0.0594 U	0.0504 U	0.120 U
39		0.218 U	0.0941 U	0.0613 U	0.0520 U	0.117 U
40	40 + 41 + 71	0.672 C U	0.419 C U	0.269 C U	0.522 C U	0.647 C EMPC
41	40 + 41 + 71	C40	C40	C40	C40	C40
42		0.286 U	0.310 EMPC	0.248	0.670	0.512
43		0.303 U	0.102 U	0.0911 U	0.0799 U	0.103 U
44	44 + 47 + 65	1.59 C U	1.72 C U	1.32 C U	2.84 C	2.15 C
45	45 + 51	0.263 C U	0.210 C EMPC	0.0792 C U	0.225 C	0.138 C EMPC
46		0.305 U	0.103 U	0.0919 U	0.0806 U	0.104 U
47	44 + 47 + 65	C44	C44	C44	C44	C44
48		0.303	0.214	0.150	0.270	0.321
49	49 + 69	0.866 C U	0.659 C U	0.475 C U	0.759 C U	0.907 C
50	50 + 53	0.255 C U	0.185 C	0.0768 C U	0.205 C	0.150 C
51	45 + 51	C45	C45	C45	C45	C45
52		2.15 U	1.45 U	1.18 U	2.07 U	1.89
53	50 + 53	C50	C50	C50	C50	C50
54		0.188 U	0.0742 U	0.0760	0.0496 U	0.130 U
55		0.360 U	0.145 U	0.0796 U	0.146 U	0.187 EMPC
56		0.349 U	0.300 EMPC	0.294	0.347	0.802
57		0.328 U	0.132 U	0.0725 U	0.133 U	0.125 U
58		0.323 U	0.130 U	0.0712 U	0.131 U	0.133 U
59	59 + 62 + 75	0.205 C U	0.0690 C	0.0618 C U	0.134 C EMPC	0.207 C
60		0.425 EMPC	0.383 EMPC	0.404	0.977	0.875
61	61 + 70 + 74 + 76	4.90 C	5.52 C	5.15 C	13.2 C	6.60 C
62	59 + 62 + 75	C59	C59	C59	C59	C59
63		0.762 EMPC	0.887 EMPC	1.02	1.42	0.777
64		0.500 EMPC	0.420	0.355	0.462 EMPC	0.650
65	44 + 47 + 65	C44	C44	C44	C44	C44
66		3.39	5.75	5.65	14.0	7.41
67		0.288 U	0.116 U	0.0636 U	0.117 U	0.112 U
68		0.313 U	0.316	0.252 EMPC	0.423 EMPC	0.128
69	49 + 69	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40
72		0.309 U	0.124 U	0.0681 U	0.125 U	0.121 U
73		0.213 U	0.0714 U	0.0641 U	0.0562 U	0.0568 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61
77		1.90	2.74	2.28	4.02	2.26
78		0.353 U	0.142 U	0.0780 U	0.143 U	0.137 U
79		0.296 U	0.119 U	0.118 EMPC	0.379	0.146
80		0.307 U	0.124 U	0.0678 U	0.124 U	0.120 U
81		0.401 U	0.151 U	0.146 EMPC	0.193 EMPC	0.145 U
82		0.362 U	0.135 EMPC	0.137	0.150	0.168 U
83	83 + 99	3.59 C	5.65 C	5.64 C	16.4 C	7.64 C
84		0.545 EMPC	0.375	0.208	0.491	0.560
85	85 + 116 + 117	2.28 C	2.21 C	2.34 C	3.93 C	2.58 C
86	86 + 87 + 97 + 108 + 119 + 125	1.70 C	1.52 C	1.69 C	4.78 C	3.47 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86
88	88 + 91	0.383 C EMPC	0.287 C	0.243 C	0.439 C	0.404 C
89		0.333 U	0.0861 U	0.0579 U	0.0594 U	0.161 U
90	90 + 101 + 113	3.57 C	3.67 C	3.28 C	6.61 C	5.26 C EMPC
91	88 + 91	C88	C88	C88	C88	C88
92		0.475	0.548	0.504	0.951	0.850
93	93 + 95 + 98 + 100 + 102	2.78 C	1.78 C U	1.71 C U	3.65 C	2.43 C
94		0.339 U	0.0875 U	0.0588 U	0.0604 U	0.162 U
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
96		0.172 U	0.0652 U	0.0496 U	0.0496 U	0.0644 U
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
99	83 + 99	C83	C83	C83	C83	C83
100	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93
101	90 + 101 + 113	C90	C90	C90	C90	C90
102	93 + 95 +					

**Table H-10**  
**Crayfish PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference P92-CF 0803129CF 3/12/2008	Reference P94-CF 0803129CF 3/12/2008	Reference P98-CF 08031298CF 3/12/2008	Reference P100-CF 080312100CF 3/12/2008	Forebay - Goose Island P10 08042910C F 4/29/2009
128	128 + 166	1.18 C	1.33 C	1.30 C	2.55 C	1.48 C EMPC
129	129 + 138 + 160 + 163	37.3 C	40.1 C	44.3 C	82.1 C	44.5 C
130		1.09	1.45	1.74	3.50	1.77
131		0.368 U	0.174 U	0.0844 U	0.136 EMPC	0.195 U
132		0.558	0.534	0.584	1.07	1.42
133		1.01	1.17	0.994	2.30	0.924
134	134 + 143	0.354 C U	0.176 C EMPC	0.229 C EMPC	0.271 C EMPC	0.689 C EMPC
135	135 + 151 + 154	1.47 C	1.69 C	1.73 C	4.50 C	3.04 C
136		0.394	0.391	0.380	0.659	0.636
137		4.20	3.77	4.24	5.77	4.13
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
139	139 + 140	0.314 C U	0.148 C U	0.111 C EMPC	0.321 C EMPC	0.178 C U
140	139 + 140	C139	C139	C139	C139	C139
141		0.344 U	0.597	0.322 EMPC	0.711	0.177 U
142		0.368 U	0.173 U	0.0843 U	0.124 U	0.198 U
143	134 + 143	C134	C134	C134	C134	C134
144		0.256 U	0.0970	0.100 EMPC	0.366 EMPC	0.290 EMPC
145		0.204 U	0.0652 U	0.0495 U	0.0496 U	0.0866 U
146		15.6	17.7	17.4	31.8	15.0
147	147 + 149	2.98 C	3.12 C	3.29 C	8.45 C	6.32 C
148		0.259 U	0.0779 U	0.0495 U	0.0496 U	0.111 U
149	147 + 149	C147	C147	C147	C147	C147
150		0.189 U	0.0652 U	0.0495 U	0.0496 U	0.0823 U
151	135 + 151 + 154	C135	C135	C135	C135	C135
152		0.181 U	0.0652 U	0.0495 U	0.0496 U	0.0787 U
153	153 + 168	78.8 C	140 C	129 C	171 C	136 C
154	135 + 151 + 154	C135	C135	C135	C135	C135
155		0.210 U	0.0684 U	0.160	0.0660	0.118 U
156	156 + 157	15.1 C	16.7 C	20.1 C	24.4 C	13.3 C
157	156 + 157	C156	C156	C156	C156	C156
158		0.249 U	0.652	0.625	1.69	1.04
159		0.272 U	0.128 U	0.0624 U	0.0914 U	0.138 U
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
161		0.242 U	0.114 U	0.0554 U	0.0812 U	0.139 U
162		0.678 EMPC	0.570 EMPC	0.757	0.882	0.400 EMPC
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129
164		0.266 U	0.126 U	0.0611 U	0.356 EMPC	0.579 EMPC
165		0.289 U	0.136 U	0.0663 U	0.0971 U	0.159 U
166	128 + 166	C128	C128	C128	C128	C128
167		9.47	12.3	16.6	18.0	11.2
168	153 + 168	C153	C153	C153	C153	C153
169		0.301 U	0.307 U	0.0971 U	0.325 U	0.164 U
170		7.26	8.06	7.72	9.43	8.66
171	171 + 173	0.667 C EMPC	0.817 C	0.768 C EMPC	1.89 C	0.960 C
172		0.750 EMPC	0.531	0.472	0.921 EMPC	0.676 EMPC
173	171 + 173	C171	C171	C171	C171	C171
174		0.723 EMPC	0.623	0.759	1.17	1.55
175		0.281 U	0.317	0.219	0.435 EMPC	0.290
176		0.210 U	0.174	0.150	0.463 EMPC	0.285 EMPC
177		5.45	7.30	5.60	10.3	4.80
178		2.29 EMPC	2.64	2.36	4.95	2.42
179		0.305 EMPC	0.463	0.556	0.882	1.07
180	180 + 193	58.7 C	57.2 C	65.5 C	79.3 C	57.3 C
181		0.336	0.344	0.278 EMPC	0.507	0.267 EMPC
182		0.274 U	0.0857 U	0.0549 U	0.123	0.142 EMPC
183	183 + 185	4.21 C	6.21 C	4.69 C	9.06 C	5.11 C
184		0.198 U	0.0652 U	0.0495 U	0.0496 U	0.0568 U
185	183 + 185	C183	C183	C183	C183	C183
186		0.231 U	0.0723 U	0.0495 U	0.0562 U	0.0589 U
187		58.6	53.6	60.0	79.9	52.2
188		0.222 U	0.209	0.202 EMPC	0.297	0.155 EMPC
189		1.31	0.936	1.32	1.65	0.662
190		4.30	6.46	4.93	10.7	4.73
191		0.460	0.566 EMPC	0.483	0.857	0.841
192		0.271 U	0.0847 U	0.0542 U	0.0658 U	0.0623 U
193	180 + 193	C180	C180	C180	C180	C180
194		3.85	2.91	3.44	4.53	3.76
195		2.32 EMPC	3.12	2.36	3.87	2.48
196		2.55	2.37	2.27	3.43	3.05
197	197 + 200	0.244 C U	0.284 C	0.214 C	0.448 C	0.297 C EMPC
198	198 + 199	6.09 C	4.47 C	4.59 C	8.19 C	5.37 C EMPC
199	198 + 199	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197
201		1.27	1.51	1.28	2.01	1.20
202		0.961 EMPC	1.21	1.18	2.22	1.63
203		3.04	4.86	4.32	9.69	5.47
204		0.238 U	0.0786 U	0.0495 U	0.0648 U	0.0637 U
205		0.288 U	0.319 EMPC	0.242 EMPC	0.450	0.315 EMPC
206		1.28	1.63	1.35	2.54	1.53 EMPC
207		0.757 EMPC	0.666	0.499	0.813	0.425
208		0.701 U	0.739 EMPC	0.641	1.19	0.758
209		2.02	2.37	1.71 EMPC	2.67	1.80
<b>Total PCBs as Congeners in ug/kg, wet weight</b>						
Total PCBs as Congeners (full EMPC/full SDL)	0.528 J	0.665 J	0.620 J	0.958 J	0.614 J	
Total PCBs as Congeners (KM-based)	0.498 J	0.650 J	0.609 J	0.946 J	0.587 J	
Total PCBs as Congeners (KM-based, capped)	0.498 J	0.650 J	0.609 J	0.946 J	0.587 J	

**Notes:**

C = Concentration represents coeluting congeners.

U = The analyte was not detected above the RDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The RDL is an estimate.

ng/kg = nanogram/kilogram

ug/kg = micrograms/kilogram

pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.

RDL = Reported detection limit

KM-based = Kaplan-Meier-based with Efron's bias correction

KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay SF-01 F-1 9/17/2008	Forebay SF-02 F-2 9/17/2008	Forebay SF-03 F-3 9/17/2008	Forebay SF-04 F-4 9/17/2008	Forebay SF-05 F-5 10/22/2008	Forebay SF-06 F-6 9/19/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.121 EMPC	0.161	66.3 U	0.205	0.246	0.382
2		0.482	0.409	72.3 U	0.561	0.444	1.22
3		0.220 EMPC	0.444 EMPC	77.0 U	0.496 EMPC	0.247	0.665 EMPC
4		1.03 EMPC	1.22 EMPC	336 U	1.01	1.78	2.94
5		0.151 U	0.148 U	251 U	0.184 U	0.132 U	0.216 U
6		0.681	0.684	226 U	1.21 EMPC	0.961	1.75
7		0.267 EMPC	0.154 EMPC	229 U	0.191 EMPC	0.233	0.469 EMPC
8		3.47	3.40	209 U	2.78	4.36	8.63
9		0.233 EMPC	0.268	225 U	0.744	0.304	0.652 EMPC
10		0.139 U	0.136 U	230 U	0.169 U	0.121 U	0.206 U
11		211	191	233 U	90.5	124	450
12	12 + 13	0.146 C U	0.143 C U	233 C U	1.07 C EMPC	0.127 C U	0.221 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.139 U	0.135 U	228 U	0.168 U	0.120 U	0.208 U
15		1.16 EMPC	1.19	278 U	0.620	0.854	2.93 EMPC
16		3.94	3.64	130 U	2.63	5.38	11.5
17		6.55	5.96	189	14.6	14.8	36.3
18	18 + 30	15.6 C	15.1 C	882 C EMPC	65.2 C	25.9 C	60.1 C
19		0.437	0.499 EMPC	111 U	0.492	1.01	1.76
20	20 + 28	68.0 C	60.6 C	2,330 C	283 C	122 C	280 C
21	21 + 33	9.90 C	7.60 C	380 C	20.7 C	14.1 C	40.1 C
22		9.74	8.99	86.1 U	14.6	13.3	48.1
23		0.0740 EMPC	0.0497 U	80.7 U	0.418	0.196 U	0.330 U
24		0.314 EMPC	0.248	79.9 U	0.290	0.376	0.655
25		1.53	1.32	69.3 U	5.51	2.62	10.5
26	26 + 29	7.77 C	6.49 C	211 C EMPC	31.4 C	12.4 C	38.8 C
27		1.00	1.02	79.0 U	2.75	2.39	7.03
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		29.8	23.0	850	243	37.4	170
32		1.61	1.23	75.3 U	4.21	4.08	13.3
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.234 EMPC	0.210	79.8 U	0.804	0.397	1.02
35		0.0680 EMPC	0.141	77.7 U	0.325 U	0.198 U	0.343 U
36		0.0517 U	0.0860	74.0 U	0.882 EMPC	0.169 U	0.302 U
37		2.53	3.54	96.5	28.7	9.62	13.9
38		0.119 EMPC	0.108	78.9 U	1.99	0.559	0.972
39		0.315 EMPC	0.184	76.6 U	8.92	1.95	3.59
40	40 + 41 + 71	10.6 C	7.53 C	3,320 C	322 C	162 C	227 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		7.19	6.24	3,610	505	82.5	115
43		2.21 EMPC	1.62	2,880	54.4	17.3	23.3
44	44 + 47 + 65	71.3 C	67.5 C	52,400 C	5,620 C	1,120 C	1,300 C
45	45 + 51	2.10 C	1.52 C	313 C EMPC	5.89 C	11.8 C	20.4 C
46		0.359	0.385 EMPC	94.7 U	0.515	2.14	2.66
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		8.08	6.12	2,690	0.250 U	52.9	93.1
49	49 + 69	56.3 C	53.1 C	35,700 C	8,730 C	909 C	1,090 C
50	50 + 53	1.05 C	0.876 C EMPC	1,090 C	18.7 C	18.5 C	15.5 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		142	109	165,000	29,800	3,220	3,640
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0620 EMPC	0.0497 U	59.6 U	0.261	0.214 EMPC	1.38
55		0.198 U	0.240 U	258 U	4.22 U	1.64 U	1.70 U
56		7.85	6.63	5,290	1,340	18.1	217
57		0.622	0.608 EMPC	260 U	7.88	1.68	2.88 EMPC
58		0.405 EMPC	0.461	262 U	3.85 U	4.39 EMPC	4.32 EMPC
59	59 + 62 + 75	6.14 C	5.80 C	1,070 C	97.1 C	25.5 C	44.7 C
60		41.4	63.5	8,840	1,950	370	357
61	61 + 70 + 74 + 76	246 C	360 C	131,000 C	41,600 C	3,970 C	5,880 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		14.2	31.5	2,480	501	199	82.5
64		29.7	26.5	9,120	1,710	417	559
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		201	396	73,300	16,800	3,060	1,970
67		1.28	1.39	225 U	10.4	2.07	8.86
68		2.62	3.22	236 U	12.1	7.68	10.6
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		3.46	3.83	237 U	19.2	9.09	15.4
73		0.0505 U	0.0497 U	58.2 U	0.192 U	0.178 U	0.124 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		10.8	19.9	443	111	40.0	48.7
78		0.494	0.241 U	251 U	47.1	26.2	6.78 EMPC
79		1.63	1.90	3,020	471	71.4	59.4
80		0.456	0.486 EMPC	233 U	9.75 EMPC	3.83	1.57
81		0.449 EMPC	0.807 EMPC	295 U	9.50 U	5.23 U	3.88 U
82		2.29 EMPC	1.23 EMPC	22,200	2,230	361	227
83	83 + 99	708 C	1,480 C	315,000 C	69,000 C	33,400 C	8,610 C
84		6.44	4.50	29,200	1,240	588	420
85	85 + 116 + 117	198 C	365 C	73,900 C	18,800 C	8,850 C	2,650 C
86	86 + 87 + 97 + 108 + 119 + 125	117 C	129 C	196,000 C	33,500 C	7,090 C	5,600 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	9.41 C	6.34 C	23,900 C	2,730 C	566 C	535 C
89		0.294	0.229 EMPC	366 U	6.26	31.7	25.4
90	90 + 101 + 113	302 C	311 C	303,000 C	58,700 C	12,600 C	10,000 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		82.8	85.9	49,100	9,270	1,840	1,760
93	93 + 95 + 98 + 100 + 102	96.2 C	75.1 C	113,000 C	12,100 C	2,720 C	2,860 C
94		0.0830	0.0908 U	363 U	1.96	4.01	1.

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay SF-01 F-1 9/11/2008	Forebay SF-02 F-2 9/11/2008	Forebay SF-03 F-3 9/11/2008	Forebay SF-04 F-4 9/11/2008	Forebay SF-05 F-5 10/22/2008	Forebay SF-06 F-6 9/19/2008
128	128 + 166	305 C	597 C	60,700 C	20,800 C	17,100 C	2,510 C
129	129 + 138 + 160 + 163	2,040 C	4,800 C	463,000 C	113,000 C	91,300 C	15,100 C
130		32.6	44.2	23,600	3,040	774	577
131		0.630	0.562 U	2,350	332	48.0	38.7
132		16.0	9.49	38,400	4,080	1,010	874
133		37.7	107	4,820	912	827	176
134	134 + 143	5.45 C	3.43 C	10,400 C	1,330 C	233 C	200 C
135	135 + 151 + 154	164 C	204 C	31,900 C	6,240 C	1,740 C	1,710 C
136		16.1	12.6	13,700	1,280	493	453
137		130	424	57,700	12,800	14,700	979
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	34.3 C	70.6 C	6,590 C	2,040 C	1,530 C	306 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		63.5	74.5	37,700	7,460	2,330	1,220
142		0.206 U	0.561 U	233 U	6.08 U	3.32 U	2.18 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		7.37	5.71	7,050	1,100	195	191
145		0.0505 U	0.0497 U	55.1 EMPC	0.343 U	2.17	1.88
146		304	845	59,200	10,500	7,890	1,840
147	147 + 149	57.5 C	49.8 C	69,800 C	8,440 C	1,360 C	1,480 C
148		1.07 EMPC	1.15	91.1 EMPC	17.2	5.27	7.33
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.0940	0.0497 U	61.9 EMPC	8.60	1.37	1.72
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.377	0.332	49.8 U	10.4	9.62	8.39
153	153 + 168	2,940 C	13,600 C	423,000 C	105,000 C	106,000 C	14,500 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		2.34 EMPC	5.11	46.1 U	4.50	5.38	4.76
156	156 + 157	306 C	1,220 C	118,000 C	21,900 C	25,400 C	2,020 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		169	380	40,500	12,800	11,400	1,450
159		1.03	1.11 EMPC	375	31.3	7.48	7.47
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.136 U	0.371 U	158 U	4.01 U	2.19 U	1.47 U
162		10.8	36.1	2,740	426	475	53.8
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		20.8	20.3	15,200	2,580	618	456
165		1.73	4.68	177 U	14.5	14.3	1.64 U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		97.9	322	30,800	5,230	3,520	766
168	153 + 168	C153	C153	C153	C153	C153	C153
169		2.46 U	7.04 U	164 U	23.2 U	28.8 U	5.51 U
170		285	1,120	49,200	9,460	12,900	988
171	171 + 173	103 C	281 C	6,420 C	2,160 C	2,240 C	379 C
172		37.6	71.5	5,030	851	830	134
173	171 + 173	C171	C171	C171	C171	C171	C171
174		12.7	8.59	8,400	687	134	152
175		5.64	11.3	839	125	63.5	27.8
176		1.55	0.819	566	64.3	10.7	20.8
177		40.6	58.0	8,900	851	309	311
178		81.8	246	4,160	659	599	300
179		26.8	21.3	2,220	318	121	220
180	180 + 193	975 C	7,050 C	84,000 C	16,500 C	26,600 C	2,040 C
181		6.76	26.4	1,410	311	412	28.4
182		2.35	3.95	266 EMPC	48.0	47.7	7.86
183	183 + 185	234 C	788 C	16,100 C	3,520 C	3,550 C	721 C
184		2.66	6.37	48.8 U	12.0	12.0	5.82
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0513 U	0.0497 U	53.4 U	0.475 U	0.246 U	0.137 EMPC
187		451	952	28,700	3,350	2,620	1,750
188		1.06	2.28	53.1 U	6.22	4.29	3.12
189		12.8	88.1	2,480	400	501	43.7
190		107	421	7,060	1,640	1,990	294
191		15.9	84.3	2,130	337	438	39.8
192		0.0570 U	0.274 EMPC	56.0 U	0.528 U	0.273 U	0.124 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		101	422	9,210	950	1,480	147
195		60.8	394	3,180	371	534	90.2
196		59.5	445	3,890	462	688	86.5
197	197 + 200	9.52 C	39.6 C	393 C	44.2 C	63.9 C	17.8 C
198	198 + 199	72.8 C	172 C	7,560 C	564 C	449 C	193 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		11.1	30.4	830 EMPC	65.7	48.2	29.6
202		53.2	205	1,790	226	309	131
203		128	409	2,960	717	1,220	232
204		0.214 EMPC	0.765	35.6 U	0.801	1.10	0.363
205		6.94	27.4	265	50.5	67.1	12.7
206		54.5	147	1,650	321	635	75.8
207		12.0	57.0	405	60.6	92.8	12.3
208		10.7	26.7	631	54.2	54.7	20.0
209		28.5	75.0	282	67.0	85.5	28.5
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)		15.0 J	48.9 J	4,784 J	915 J	559 J	141 J
Total PCBs as Congeners (KM-based)		14.9 J	48.6 J	4,773 J	915 J	559 J	141 J
Total PCBs as Congeners (KM-based, capped)		14.9 J	48.8 J	4,773 J	915 J	559 J	141 J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay SF-07 F-7 10/21/2008	Forebay SF-08 F-8 9/17/2008	Forebay SF-09 F-9 9/19/2008	Forebay SF-10 F-10 10/21/2008	Forebay SF-11 F-11 9/17/2008	Forebay SF-12 F-12 2/22/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.234	0.178	0.160 EMPC	0.251 EMPC	0.175	0.929 J
2		0.446	0.473	0.535	0.479 EMPC	0.384	1.14 J
3		0.251 EMPC	0.265 EMPC	0.368 EMPC	0.594 EMPC	0.236 EMPC	0.702 EMPC
4		1.27	1.10	1.36	1.84	1.01	5.26 J
5		0.0876 U	0.112 U	0.172 U	0.134 EMPC	0.112 U	0.347 EMPC
6		0.687	0.657	0.161 U	0.125 U	0.518	2.55 J
7		0.146 EMPC	0.176	0.165 U	0.289	0.114 EMPC	0.477 J
8		3.26	3.58	3.05	5.69	2.44	12.2 J
9		0.241	0.244	0.237	0.391	0.178 EMPC	0.946 EMPC
10		0.0890 EMPC	0.106 U	0.163 U	0.125 U	0.106 U	0.257 EMPC
11		128	213	152	132	179	332 J
12	12 + 13	0.0896 C U	0.114 C U	0.176 C U	0.125 C U	0.114 C U	0.132 C UJ
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0845 U	0.108 U	0.166 U	0.125 U	0.108 U	0.125 UJ
15		0.784	1.51 EMPC	0.923 EMPC	1.19	1.16 EMPC	1.98 EMPC
16		4.02	4.16	3.47	5.68	2.70	12.7 J
17		7.31	8.49	5.65	9.32	4.84	21.4 J
18	18 + 30	16.5 C	18.8 C	12.6 C	20.5 C	11.9 C	49.6 C J
19		0.561	0.461	0.534 EMPC	0.754	0.423	1.89 J
20	20 + 28	89.0 C	97.6 C	66.2 C	99.7 C	66.3 C	184 C J
21	21 + 33	11.8 C	13.0 C	8.45 C	16.7 C	7.27 C	28.3 C J
22		11.2	13.1	9.07	14.8	7.21	27.8 J
23		0.126	0.0752 U	0.0650 EMPC	0.125 U	0.0815 U	0.184 J
24		0.319	0.299	0.309	0.419	0.214	0.880 EMPC
25		1.75	1.90	1.31	2.45	1.13	3.53 J
26	26 + 29	9.60 C	10.5 C	6.89 C	11.5 C	6.60 C	18.2 C J
27		1.04	1.16	0.877	1.40	0.649	3.56 J
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		36.8	40.5	26.7	50.6	22.3	93.8 J
32		1.60	1.81	1.20	2.83	1.10	4.38 J
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.394	0.394 EMPC	0.280	0.422	0.273	0.630 J
35		0.0880 U	0.105 EMPC	0.107 EMPC	0.239	0.0847 U	0.179 UJ
36		0.0775 U	0.0689 U	0.0510 EMPC	0.138	0.0746 U	0.157 UJ
37		2.29	11.4	2.55	3.23	3.24	3.70 J
38		0.170 EMPC	0.151	0.125 EMPC	0.235 EMPC	0.108 EMPC	0.407 EMPC
39		0.464	0.454	0.364	0.653 EMPC	0.244	1.21 J
40	40 + 41 + 71	17.5 C	16.8 C	10.7 C	24.3 C	7.51 C	43.3 C J
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		14.3	12.4	9.84	15.5	5.21	42.9 J
43		3.47	3.43	1.97	4.51	2.04 EMPC	8.19 J
44	44 + 47 + 65	118 C	119 C	69.0 C	138 C	65.9 C	307 C J
45	45 + 51	2.74 C	2.59 C	2.00 C	4.74 C	1.32 C	8.77 C J
46		0.550	0.413 EMPC	0.489	0.836	0.300 EMPC	1.71 J
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		15.1	13.7	0.0623 U	0.125 U	6.24	40.9 J
49	49 + 69	105 C	105 C	62.2 C	128 C	57.5 C	208 C J
50	50 + 53	1.40 C	1.22 C	1.25 C	2.31	0.829 C	6.12 C J
51	45 + 51	C45	C45	C45	C45	C45	C45
52		231	234	122	310	123	564 J
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0870 EMPC	0.0750 EMPC	0.0527 U	0.125 U	0.0570	0.125 UJ
55		0.236 U	0.396 U	0.262 U	0.361 U	0.341 U	0.745 UJ
56		11.2	11.6	8.27	15.7	5.84	37.9 J
57		1.12	1.48	0.775 EMPC	1.39	0.728	2.22 J
58		0.960	0.589	0.450	1.47	0.525	2.00 EMPC
59	59 + 62 + 75	10.5 C	10.1 C	5.95 C	12.8 C	5.67 C	26.4 C J
60		68.6	77.2	46.0	70.9	54.5	154 J
61	61 + 70 + 74 + 76	402 C	505 C	259 C	514 C	307 C	940 C J
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		19.2	31.0	14.4	16.6	22.1	33.5 J
64		58.4	54.8	37.4	73.9	27.7	0.125 UJ
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		330	458	227	318	319	633 J
67		2.17	2.52	1.52	2.71	1.23	4.86 J
68		3.55	4.22	2.92	3.66	3.36	7.33 J
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		5.47	5.89	3.24	5.80	3.92	9.79 J
73		0.0500 U	0.0501 U	0.0497 U	0.125 U	0.0498 U	0.125 UJ
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		12.8	29.8	11.4	14.3	14.2	29.2 J
78		0.905 EMPC	0.831	0.621	0.349 U	0.920	1.44 J
79		2.87	2.68	1.76	3.91	1.59	10.9 J
80		0.315 EMPC	0.441 EMPC	0.298 EMPC	0.306 U	0.385	0.717 J
81		0.553 U	1.45	0.382 EMPC	0.524 U	0.710 EMPC	0.818 UJ
82		4.11 EMPC	3.48	3.07	6.08	2.22 EMPC	16.8 J
83	83 + 99	1,020 C	1,210 C	524 C	1,060 C	877 C	1,880 C J
84		11.0	9.27	7.46	18.2	4.05	56.4 J
85	85 + 116 + 117	280 C	347 C	154 C	316 C	234 C	608 C J
86	86 + 87 + 97 + 108 + 119 + 125	241 C	227 C	133 C	342 C	110 C	733 C J
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	19.8 C	17.2 C	11.4 C	30.9 C	6.16 C	90.2 C J
89		0.750	0.638	0.470 EMPC	1.14	0.208 U	1.93 EMPC
90	90 + 101 + 113	730 C	661 C	375 C	920 C	291 C	2,080 C J
91	88 + 91	C88	C88	C88	C88	C88	C88
92		166	169	76.4	203	74.4	469 J
93	93 + 95 + 98 + 100 + 102	180 C	180 C	88.8 C	240 C	76.6 C	520 C J
94							

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay SF-07 F-7 10/21/2008	Forebay SF-08 F-8 9/17/2008	Forebay SF-09 F-9 9/19/2008	Forebay SF-10 F-10 10/21/2008	Forebay SF-11 F-11 9/17/2008	Forebay SF-12 F-12 2/22/2008
128	128 + 166	392:C	500:C	207:C	476:C	347:C	834:C J
129	129 + 138 + 160 + 163	3,090:C	3,700:C	1,550:C	3,270:C	2,960:C	5,390:C J
130		72.7	65.2	43.8	78.9	37.5	183:J
131		1.67	1.45	1.03	2.26	0.492:U	2.39:U
132		33.7	31.4	19.6	60.4	8.62	237:J
133		61.3	70.4	34.8	56.5	61.3	117:J
134	134 + 143	14.4:C	11.6:C	7.45:C	20.4:C	3.34:C	59.8:C J
135	135 + 151 + 154	320:C	307:C	144:C	356:C	138:C	1,030:C J
136		34.9	32.9	16.6	45.3	12.2	129:J
137		138	180	73.3	140	163	59.6:J
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	46.3:C	56.8:C	22.3:C	56.3:C	40.1:C	62.6:C J
140	139 + 140	C139	C139	C139	C139	C139	C139
141		115	130	53.5	161	65.4	123:J
142		0.370:U	0.424:U	0.330:U	0.520:U	0.501:U	2.44:UJ
143	134 + 143	C134	C134	C134	C134	C134	C134
144		16.8	14.2	8.62	22.3	5.07	31.2:J
145		0.101:U	0.0808:U	0.0954:U	0.125:U	0.0685:U	0.125:UJ
146		525:	570:	310:	420:	538:	935:J
147	147 + 149	109:C	105:C	65.2:C	158:C	40.9:C	808:C J
148		2.23	1.86	1.11	2.52	0.727	8.49:J
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.202:	0.152:EMPC	0.0900:U	0.273	0.0647:U	1.14:J
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.598:	0.0745:U	0.341:	0.808	0.305	1.94:J
153	153 + 168	4,650:C	5,270:C	2,190:C	3,950:C	6,260:C	5,280:C J
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		3.62	4.12	1.77	3.97	3.47	6.51:J
156	156 + 157	340:C	428:C	179:C	337:C	414:C	283:C J
157	156 + 157	C156	C156	C156	C156	C156	C156
158		233	293	106	284	205	186:J
159		1.63	1.64	0.922	1.93	0.778:EMPC	3.66:J
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.250:U	0.286:U	0.223:U	0.351:U	0.338:U	1.65:UJ
162		14.7	18.9	8.77	14.1	17.7	18.1:J
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		41.5	43.3	20.9	58.6	18.8	160:J
165		2.70	3.12	1.72	2.31	2.83	3.77:EMPC
166	128 + 166	C128	C128	C128	C128	C128	C128
167		116	140	71.6	93.8	165	131:J
168	153 + 168	C153	C153	C153	C153	C153	C153
169		3.65	3.63:U	2.18:U	3.22:U	4.79:U	4.05:U
170		328	388	175	373	478	218:J
171	171 + 173	152:C	177:C	77.6:C	188:C	159:C	127:C J
172		49.9	57.4	27.5	52.7	64.3	42.1:J
173	171 + 173	C171	C171	C171	C171	C171	C171
174		21.0	19.4	12.0	32.3	7.51	70.8:J
175		9.72	9.21	5.65	9.54	8.02	10.6:J
176		3.09	2.74	1.73	5.13	0.614:EMPC	13.6:J
177		85.4	72.4	57.1	91.3	45.5	414:J
178		159	168	87.7	147	133	386:J
179		67.1	53.3	34.3	82.8	17.5	333:J
180	180 + 193	1,290:C	1,460:C	693:C	1,150:C	2,270:C	744:C J
181		8.39	10.0	4.24	8.19	9.88	6.22:J
182		3.00	3.49	1.73:EMPC	3.59	2.68	3.09:C J
183	183 + 185	347:C	384:C	172:C	379:C	398:C	309:C J
184		4.22	4.81	2.20	5.12	4.13	5.36:J
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0500:U	0.0574:U	0.0507:U	0.125:U	0.0498:U	0.125:UJ
187		705	643	468	526	654	2,230:J
188		1.83	1.76	1.34	1.47	1.75	5.34:J
189		13.5	15.7	8.13	13.6	20.9	9.62:J
190		172	202	83.0	170	242	161:J
191		19.9	24.2	10.3	21.1	33.3	11.1:J
192		0.0542:U	0.0647:U	0.0571:U	0.175:EMPC	0.101:EMPC	0.125:UJ
193	180 + 193	C180	C180	C180	C180	C180	C180
194		124	130	69.5	118	190	65.9:J
195		84.9	92.0	44.6	83.0	123	67.9:J
196		68.4	77.7	40.9	71.8	120	40.7:J
197	197 + 200	14.1:C	15.1:C	7.56:C	16.7:C	18.3:C	10.3:C J
198	198 + 199	115:C	108:C	73.7:C	91.8:C	110:C	155:C J
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		19.6	17.6	13.0	15.5	18.5	20.7:J
202		106	113	57.8	104	93.2	199:J
203		213	227	102	217	288	142:J
204		0.407	0.420	0.214	0.374:EMPC	0.476	0.229:J
205		11.2	11.6	5.74	10.7	14.3	5.73:J
206		73.4	74.9	40.7	66.6	73.4	34.8:J
207		14.5	15.6	8.48	14.6	18.3	7.46:J
208		17.4	16.3	10.9	13.9	14.4	14.8:J
209		37.1	39.3	20.9	29.6	34.9	15.9:J

**Total PCBs as Congeners in ug/kg, wet weight**

Total PCBs as Congeners (full EMPC/full SDL)	22.9:J	26.2:J	12.3:J	23.1:J	24.1:J	39.7:J
Total PCBs as Congeners (KM-based)	22.9:J	26.1:J	12.3:J	23.1:J	24.2:J	39.6:J
Total PCBs as Congeners (KM-based, capped)	22.9:J	26.1:J	12.3:J	23.1:J	24.1:J	39.6:J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.

RDL = Reported detection limit

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay SF-13 F-13 2/22/2008	Forebay SF-14 F-14 10/22/2008	Forebay SF-15 F-15 10/21/2008	Forebay SF-16 F-16 10/21/2008	Forebay SF-17 F-17 10/21/2008	Reference SR-01 R-1 7/23/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.540 EMPC	0.160	1.94	0.218 EMPC	0.266 EMPC	0.165
2		0.664 J	0.376	2.04	0.411	0.454	0.407 EMPC
3		2.45 EMPC	0.221 EMPC	20.9 EMPC	0.461 EMPC	0.595 EMPC	0.275
4		2.43 J	1.32	0.989 EMPC	1.27	1.70	1.24
5		0.157 UJ	0.0960	0.273 U	0.0870 EMPC	0.233 U	0.275 U
6		1.21 J	0.748	0.379 EMPC	0.637	1.34	0.641
7		0.289 EMPC	0.202 EMPC	0.651	0.187	0.254	0.253 U
8		4.86 J	3.44	1.92	2.84	6.59	3.15
9		0.547 J	0.286 EMPC	0.975 EMPC	0.221 EMPC	0.435	0.244 U
10		0.150 UJ	0.0830 EMPC	0.241 U	0.0760	0.206 U	0.257 U
11		114 J	127	138 EMPC	134	133	143
12	12 + 13	0.924 C EMPC	0.0822 C U	0.269 C U	0.0759 C U	0.230 C U	0.257 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.152 UJ	0.0769 U	0.252 U	0.0710 U	0.215 U	0.246 U
15		0.731 J	0.975 EMPC	1.41	0.779	1.15	1.03
16		4.24 J	3.92	0.937	3.27	6.22	3.55
17		5.96 J	11.2	1.84	5.58	13.7	6.49
18	18 + 30	15.2 C J	22.5 C	4.69 C	15.3 C	29.9 C	14.3 C
19		0.735 J	0.456 EMPC	0.272 EMPC	0.475	0.621	0.429 EMPC
20	20 + 28	66.4 C J	106 C	44.9 C	78.9 C	226 C	91.5 C
21	21 + 33	6.95 C J	13.3 C	3.29 C	7.60 C	26.2 C	12.5 C
22		6.41 J	14.5	3.51	8.85	23.2	12.6
23		0.141 UJ	0.106 EMPC	0.132 U	0.117 EMPC	0.203 U	0.133 U
24		0.263 EMPC	0.352 EMPC	0.132 U	0.243	0.529 EMPC	0.239
25		0.866 J	2.06	0.576	1.35	3.63	2.01
26	26 + 29	6.67 C J	11.7 C	3.79 C	8.35 C	18.8 C	9.87 C
27		1.03 J	1.33	0.291 EMPC	0.954	1.91	0.802
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		35.4 J	44.5	15.2	32.2	88.9	46.4
32		1.79 J	1.85	0.452 EMPC	1.35	7.15	1.36
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.153 EMPC	0.383	0.132 U	0.256	0.467	0.314
35		0.141 UJ	0.114 EMPC	0.132 U	0.0929 U	0.219 U	0.133 U
36		0.141 UJ	0.0776 U	0.132 U	0.0800 U	0.188 U	0.114 U
37		0.874 J	2.34	0.716	2.51	4.10	2.85
38		0.141 UJ	0.223	0.132 U	0.134 EMPC	0.342 EMPC	0.123 U
39		0.158 EMPC	0.663 EMPC	0.132 U	0.350	0.821	0.483
40	40 + 41 + 71	7.86 C J	17.2 C	2.61 C	8.07 C	35.9 C	14.8 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		5.17 J	18.0	1.72	10.9	25.4	11.0
43		1.55 J	0.245	0.880 EMPC	2.91	6.71	3.37 EMPC
44	44 + 47 + 65	66.9 C J	154 C	57.4 C	102 C	279 C	112 C
45	45 + 51	1.80 C J	2.51 C	1.21 C	2.00 C	4.69 C	2.33 C
46		0.493 EMPC	0.367 EMPC	0.132 U	0.395 EMPC	0.619 EMPC	0.380 EMPC
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		6.69 J	19.4	2.37	9.48	24.9	12.1
49	49 + 69	58.7 C J	136 C	29.1 C	82.0 C	221 C	103 C
50	50 + 53	1.27 C J	1.03 C	0.223 C	0.972 C	2.17 C	0.952 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		151 J	277	61.8	165	361	216
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.141 UJ	0.0810 EMPC	0.132 U	0.0760 EMPC	0.108 EMPC	0.0903 U
55		0.240 UJ	0.819 U	0.336 U	0.349 U	1.18 U	0.334 U
56		5.32 J	9.89	1.47	6.50	22.3	12.4
57		0.564 J	1.30	0.409	1.10	2.27	1.00
58		0.285 J	0.734 U	0.301 U	0.509	1.06 U	1.06
59	59 + 62 + 75	6.09 C J	13.0 C	3.84 C	8.31 C	22.2 C	9.92 C
60		43.9 J	108	51.1	59.4	249	69.0
61	61 + 70 + 74 + 76	255 C J	585 C	257 C	477 C	1,090 C	415 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		10.4 J	28.2	12.9	29.4	49.5	15.1
64		0.141 UJ	68.0	14.2	42.5	114	55.3
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		188 J	517	266	383	982	313
67		0.612 J	2.45	0.479	1.44 EMPC	3.52	2.43
68		2.22 J	4.44	2.11	6.21	5.00	3.30
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		3.20 J	6.62	2.81	4.89	8.77	5.64
73		0.141 UJ	0.0499 U	0.132 U	0.0501 U	0.100 U	0.0823 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		4.31 J	15.3	4.64	18.7	15.4	11.4
78		0.365 J	1.21	0.505 EMPC	1.32	1.63 EMPC	0.318 U
79		1.26 J	3.25	0.664	1.91	4.36	2.03
80		0.238 EMPC	0.682 U	0.280 U	0.460 EMPC	1.92 EMPC	0.390 EMPC
81		0.225 UJ	0.756 U	0.278 U	0.846 EMPC	1.11 U	0.938 EMPC
82		2.64 EMPC	2.98	0.629 EMPC	2.73	11.6	4.10
83	83 + 99	502 C J	1,710 C	913 C	878 C	2,490 C	868 C
84		6.50 J	8.94	1.27 EMPC	6.94	21.6	11.2
85	85 + 116 + 117	157 C J	454 C	158 C	252 C	708 C	266 C
86	86 + 87 + 97 + 108 + 119 + 125	119 C J	288 C	58.4 C	151 C	447 C	212 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	7.34 C J	18.9 C	2.27 C	11.2 C	33.3 C	18.0 C
89		0.210 EMPC	0.642	0.209 U	0.382	0.967	0.483
90	90 + 101 + 113	342 C J	953 C	161 C	485 C	1,020 C	632 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		99.1 J	228	55.0	109	251	161
93	93 + 95 + 98 + 100 + 102	100 C J	207 C	46.7 C	114 C	246 C</	

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay SF-13 F-13 2/22/2008	Forebay SF-14 F-14 10/22/2008	Forebay SF-15 F-15 10/21/2008	Forebay SF-16 F-16 10/21/2008	Forebay SF-17 F-17 10/21/2008	Reference SR-01 R-1 7/23/2008
128	128 + 166	190 C J	670 C	401 C	335 C	877 C	361 C
129	129 + 138 + 160 + 163	1,380 C J	5,510 C	3,010 C	3,230 C	5,830 C	2,440 C
130		30.9 J	98.3	19.7	65.4	103	54.1
131		0.754 EMPC	1.69 EMPC	0.507 U	0.997	3.00	1.51
132		16.8 J	32.1	2.82	18.5	66.6	40.0
133		27.1 J	100	60.4	73.6	91.2	45.1
134	134 + 143	5.18 C J	14.3 C	1.24 C	6.60 C	17.2 C	11.1 C
135	135 + 151 + 154	180 C J	488 C	114 C	211 C	407 C	310 C
136		0.141 UJ	42.9	5.90	20.7	46.2	32.9
137		47.2 J	180	95.0	602	366	76.5
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	22.3 C	78.3 C	22.9 C	31.3 C	95.7 C	39.1 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		66.6 J	148	47.9	81.5	266	108
142		0.555 UJ	0.722 U	0.506 U	0.633 U	1.04 U	0.274 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		8.04 J	21.1	2.30	10.4	25.6	15.0
145		0.141 UJ	0.0610 EMPC	0.132 U	0.0703 U	0.161 U	0.0554 U
146		216 J	840	547	977	721	352
147	147 + 149	53.4 C J	128 C	17.8 C	82.6 C	196 C	131 C
148		1.32 J	3.54	0.597	1.89	3.14	2.23
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.141 U	0.126 EMPC	0.132 U	0.0655 U	0.301 EMPC	0.251 EMPC
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.141 UJ	0.852	0.132 U	0.449	0.651 EMPC	0.597
153	153 + 168	1,480 C	7,790 C	4,780 C	8,030 C	6,930 C	2,900 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		1.98	6.24	1.76	3.29	6.24	2.55
156	156 + 157	123 C J	485 C	381 C	1,550 C	759 C	183 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		90.3 J	414	183	150	552	195
159		0.799 J	1.34	0.556 EMPC	1.14 EMPC	2.38 EMPC	1.70 EMPC
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.375 UJ	0.504 U	0.353 U	0.442 U	0.724 U	0.183 U
162		6.02 J	20.6	13.4	37.4	28.5	9.42
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		25.1 J	52.9	12.3	27.0	73.1	41.0
165		1.30 J	4.53	4.52	3.88	3.85 EMPC	1.64
166	128 + 166	C128	C128	C128	C128	C128	C128
167		43.2 J	179	87.5	671	193	70.8
168	153 + 168	C153	C153	C153	C153	C153	C153
169		1.45 UJ	5.62 U	3.69 U	4.16 U	3.70 U	3.36 U
170		148 J	411	526	392	641	212
171	171 + 173	67.6 C J	271 C	130 C	112 C	227 C	110 C
172		27.5 J	64.0	81.2	44.5	102	39.4
173	171 + 173	C171	C171	C171	C171	C171	C171
174		12.8 J	17.9	3.01	12.9	32.7	21.4
175		5.47 J	15.2	5.04	11.3	14.8	6.60
176		1.61 J	3.85	0.132 U	1.73	4.77	3.59
177		38.4 J	110	19.2	78.6	93.9	60.8
178		79.7 J	292	128	170	200	118
179		35.1 J	91.6	10.2	36.5	61.0	57.7
180	180 + 193	448 C J	1,650 C	1,620 C	2,710 C	1,860 C	624 C
181		3.13 J	11.3	5.02	20.4	13.8	4.30
182		2.19 J	5.01	2.22 EMPC	3.02	6.29	2.14
183	183 + 185	175 C J	595 C	319 C	360 C	520 C	224 C
184		1.86 J	7.70	1.58	3.24	5.89	3.14
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.141 UJ	0.0570 U	0.132 U	0.0592 U	0.109 U	0.0672 U
187		306 J	1,100	710	1,350	720	450
188		0.880 EMPC	2.90	0.692	2.99	2.25	1.19
189		5.86 J	15.8	20.5	41.3	24.8	6.91
190		67.0 J	246	169	193	191	97.8
191		8.32 J	28.3	20.2	29.8	32.2	10.1
192		0.141 UJ	0.225	0.132 U	0.184 EMPC	0.141 EMPC	0.0750
193	180 + 193	C180	C180	C180	C180	C180	C180
194		62.3 J	116	179	155	204	65.2
195		31.1 J	109	85.5	98.3	98.1	45.2
196		42.7 J	86.9	68.2	121	109	38.0
197	197 + 200	6.51 C J	20.7 C	12.1 C	12.8 C	16.2 C	9.08 C
198	198 + 199	87.9 C J	136 C	166 C	166 C	169 C	81.8 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		10.3 J	32.6	9.75	33.9	20.8	13.3
202		49.4 J	193	49.4	100	122	67.5
203		112 J	288	208	185	268	114
204		0.225 J	0.483	0.276	0.319 EMPC	0.696	0.244
205		4.88 J	14.8	12.0	9.79	13.1	5.36
206		46.3 J	82.3	68.2	58.2	102	34.8
207		13.2 J	18.3	12.0	24.1	18.4	7.22
208		15.6 J	22.4	12.0	20.3	20.9	10.8
209		22.4 J	41.9	22.8	34.8	31.6	17.8
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)		9.90 J	35.4 J	19.6 J	35.6 J	40.7 J	16.8 J
Total PCBs as Congeners (KM-based)		9.87 J	35.3 J	19.4 J	35.6 J	40.7 J	16.9 J
Total PCBs as Congeners (KM-based, capped)		9.87 J	35.3 J	19.4 J	35.6 J	40.7 J	16.8 J

**Notes:**

C = Concentration represents coeluting congeners.  
U = The analyte was not detected above the RDL.  
J = The reported value is an estimate.  
UJ = The analyte was not detected. The RDL is an estimate.  
ng/kg = nanogram/kilogram  
ug/kg = micrograms/kilogram  
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
RDL = Reported detection limit  
KM-based = Kaplan-Meier-based with Efron's bias correction  
KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference SR-02 R <sub>2</sub> 7/24/2008	Reference SR-03 R <sub>3</sub> 3/14/2008	Reference SR-04 R <sub>4</sub> 10/9/2008	Reference SR-05 R <sub>5</sub> 7/24/2008	Reference SR-06 R <sub>6</sub> 7/26/2008	Reference SR-07 R <sub>7</sub> 3/10/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.190 EMPC	0.179 EMPC	0.213	0.323 EMPC	0.433	1.43 J
2		0.440 EMPC	0.235	0.413 EMPC	0.611	0.656 EMPC	0.719 J
3		0.241 EMPC	0.218 EMPC	0.212 EMPC	0.353	0.458 EMPC	0.424 J
4		1.41	1.26	2.03 EMPC	3.18 EMPC	1.81	16.9 J
5		0.250 U	0.192 U	0.198 U	0.242 EMPC	0.423 U	0.513 UJ
6		0.913	0.573	1.03	1.98	1.05	7.90 J
7		0.231 U	0.177 U	0.233 EMPC	0.419 EMPC	0.402 EMPC	0.726 EMPC
8		4.41	2.60	0.172 U	8.86	5.25	23.9 J
9		0.305 EMPC	0.201 EMPC	0.334	0.639	0.450 EMPC	2.21 J
10		0.234 U	0.179 U	0.184 U	0.198 EMPC	0.393 U	0.886 J
11		149	119	140	215	112	178 J
12	12 + 13	0.234 C U	0.179 C U	0.190 C U	0.182 C U	0.405 C U	1.65 C EMPC
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.224 U	0.171 U	0.185 U	0.177 U	0.395 U	0.479 UJ
15		1.25	0.587 EMPC	0.903	2.30	0.976	1.92 J
16		5.85	2.64	4.06	12.0	4.91	17.8 J
17		9.45	4.21	7.34	21.0	6.38	31.3 J
18	18 + 30	21.8 C	9.94 C	17.9 C	44.9 C	16.0 C	68.6 C J
19		0.741	0.392 EMPC	0.633	1.56	0.916	3.18 J
20	20 + 28	99.4 C	57.0 C	112 C	166 C	68.5 C	251 C J
21	21 + 33	15.2 C	5.84 C	15.1 C	29.9 C	9.51 C	39.8 C J
22		15.1	6.81	16.2	31.3	7.54	28.8 J
23		0.0906 U	0.118 U	0.109	0.239	0.246 U	0.221 EMPC
24		0.315	0.183 EMPC	0.277	0.532 EMPC	0.337	1.06 J
25		2.30	1.00	2.90	3.96	1.03	4.00 J
26	26 + 29	12.1 C	6.10 C	12.8 C	19.9 C	6.79 C	27.3 C J
27		1.62	0.658 EMPC	1.23	3.23	1.09	4.32 J
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		39.6	21.0	57.7	74.1	33.2	90.2 J
32		2.85	1.08	1.89	5.54	2.18	11.6 J
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.394 EMPC	0.165 EMPC	0.407	0.722	0.266 EMPC	0.561 J
35		0.198 EMPC	0.118 U	0.137 EMPC	0.288	0.253 U	0.164 UJ
36		0.160 EMPC	0.102 U	0.0852 U	0.138	0.210 U	0.136 UJ
37		4.47	2.27	2.06	7.28	0.674	1.41 J
38		0.171 EMPC	0.109 U	0.0926 U	0.276	0.228 U	0.149 EMPC
39		0.606 EMPC	0.108 U	0.0937 U	1.22 EMPC	0.245 EMPC	0.911 J
40	40 + 41 + 71	24.4 C	7.61 C	19.5 C	7.73 C	12.7 C	40.5 C J
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		19.4	10.9	15.2	40.8	7.92	24.9 J
43		5.15	2.22	4.15	7.29	2.78	7.10 J
44	44 + 47 + 65	156 C	103 C	126 C	257 C	82.8 C	204 C J
45	45 + 51	4.43 C	1.34 C	2.95 C	6.83 C	2.84 C	7.65 C J
46		0.709	0.124	0.434 EMPC	1.85	0.792 EMPC	1.76 J
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		18.5	8.93	16.0	35.7	9.05	30.3 J
49	49 + 69	121 C	86.1 C	123 C	183 C	67.3 C	177 C J
50	50 + 53	2.48 C	0.784 C	1.88 C	6.32 C	2.41 C	4.50 C J
51	45 + 51	C45	C45	C45	C45	C45	C45
52		284	175	256	424	161	347 J
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0830 EMPC	0.0588 U	0.0597 U	0.182	0.141 U	0.149 EMPC
55		0.481 U	0.475 U	0.311 U	0.362 U	0.750 U	0.709 U
56		18.8	5.48 EMPC	18.6	39.5	7.33	14.0 J
57		1.02	0.803 EMPC	1.08	1.43	0.811	1.59 J
58		0.717 EMPC	0.502 EMPC	1.12	1.33 EMPC	0.725 U	0.813 J
59	59 + 62 + 75	13.2 C	8.70 C	12.1 C	21.4 C	7.98 C	18.1 C J
60		82.1	78.7	67.4	130	52.6	92.3 J
61	61 + 70 + 74 + 76	420 C	366 C	463 C	680 C	282 C	504 C J
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		19.5	22.5	17.0	28.0	12.0	23.7 J
64		64.0	41.0	70.2	116	38.8	0.122 UJ
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		387	409	310	579	215	409 J
67		2.81	1.73	3.48	4.59	0.972 EMPC	2.48 J
68		2.53	2.37	3.89	4.18	2.11	3.06 J
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		5.95	5.39	6.15	8.38	3.93	6.59 J
73		0.0706 U	0.0604 U	0.0582 U	0.0484 U	0.138 U	0.122 UJ
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		12.9	10.7	13.8	21.7	5.19	9.81 J
78		0.458 U	0.452 U	0.300 U	0.349 U	0.724 U	0.683 UJ
79		3.24	2.19	2.74	6.22	1.42	2.65 J
80		0.421 U	0.576	0.374 EMPC	0.542 EMPC	0.649 U	0.613 UJ
81		1.40 EMPC	1.36 EMPC	0.689 EMPC	1.98 EMPC	0.711 U	1.41 EMPC
82		6.24	1.61	9.57	15.7	4.30	5.96 J
83	83 + 99	1,200 C	1,730 C	817 C	1,930 C	632 C	1,010 C J
84		16.7	4.57	22.4	40.3	11.0	11.3 J
85	85 + 116 + 117	324 C	445 C	239 C	522 C	192 C	285 C J
86	86 + 87 + 97 + 108 + 119 + 125	263 C	233 C	274 C	496 C	145 C	269 C J
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	23.3 C	9.67 C	29.0 C	52.6 C	12.1 C	16.7 C J
89		0.984 EMPC	0.203	0.674	1.83	0.461 EMPC	0.568 J
90	90 + 101 + 113	758 C	775 C	758 C	1,270 C	412 C	748 C J
91	88 + 91	C88	C88	C88	C88	C88	C88
92		203	213	188	305	127	197 J
93	93 + 95 + 98 + 100 + 102	204 C	149 C	204 C	347 C		

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference SR-02 R <sub>2</sub> 7/24/2008	Reference SR-03 R <sub>3</sub> 3/14/2008	Reference SR-04 R <sub>4</sub> 10/9/2008	Reference SR-05 R <sub>5</sub> 7/24/2008	Reference SR-06 R <sub>6</sub> 2/26/2008	Reference SR-07 R <sub>7</sub> 3/10/2008
128	128 + 166	450:C	803:C	319:C	840:C	271:C	366:C J
129	129 + 138 + 160 + 163	3,310:C	6,350:C	2,110:C	5,890:C	1,820:C	2,740:C J
130		56.5:	76.2:	79.7:	124:	45.5:	81.1:J
131		1.33:EMPC	0.470:U	3.10:	3.26:EMPC	1.08:	1.94:J
132		48.5:	13.8:	72.1:	122:	25.7:	32.4:J
133		66.5:	123:	40.6:	97.1:	34.4:	53.8:J
134	134 + 143	13.2:C	7.32:C	19.1:C	29.3:C	7.86:C	12.4:C J
135	135 + 151 + 154	398:C	531:C	354:C	623:C	243:C	378:C J
136		40.7:	29.8:	43.1:	73.6:	24.0:	36.2:J
137		94.4:	179:	62.4:	172:	57.8:	64.6:J
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	52.4:C	91.9:C	35.6:C	88.2:C	28.3:C	40.8:C J
140	139 + 140	C139	C139	C139	C139	C139	C139
141		124:	138:	110:	197:	78.2:	107:J
142		0.543:U	0.458:U	0.209:U	2.05:U	0.379:U	0.569:UJ
143	134 + 143	C134	C134	C134	C134	C134	C134
144		17.6:	15.7:	24.0:	32.0:	10.7:	19.0:J
145		0.0920:	0.0663:U	0.0653:U	0.0970:EMPC	0.119:U	0.153:UJ
146		470:	922:	353:	722:	280:	447:J
147	147 + 149	149:C	81.2:C	186:C	330:C	76.6:C	101:C J
148		2.72:	3.30:	2.86:	4.08:	2.00:	2.91:J
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.171:EMPC	0.0639:U	0.469:	0.509:	0.119:U	0.147:UJ
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.783:EMPC	0.735:EMPC	0.555:	1.24:	0.472:EMPC	0.738:J
153	153 + 168	4,190:C	9,000:C	2,290:C	7,430:C	1,950:C	2,930:C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		3.90:	7.09:	2.47:EMPC	6.49:	2.12:	3.24:J
156	156 + 157	239:C	464:C	148:C	438:C	140:C	187:C J
157	156 + 157	C156	C156	C156	C156	C156	C156
158		268:	504:	173:	482:	148:	206:J
159		1.84:	0.324:U	2.21:	3.48:EMPC	1.63:EMPC	2.01:EMPC
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.362:U	0.305:U	0.144:U	1.41:U	0.262:U	0.393:UJ
162		12.1:	27.8:	7.82:	19.7:	6.76:	9.81:J
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		42.3:	35.8:	49.1:	87.1:	31.1:	57.1:J
165		2.65:	4.47:	1.58:EMPC	3.99:	1.65:	1.88:EMPC
166	128 + 166	C128	C128	C128	C128	C128	C128
167		91.2:	175:	60.6:	149:	51.9:	77.0:J
168	153 + 168	C153	C153	C153	C153	C153	C153
169		4.03:U	7.77:U	2.14:U	7.56:U	2.90:U	3.95:UJ
170		245:	528:	186:	560:	188:	188:J
171	171 + 173	153:C	361:C	100:C	304:C	91.3:C	113:C J
172		43.8:	80.5:	34.8:	78.8:	33.8:	35.2:J
173	171 + 173	C171	C171	C171	C171	C171	C171
174		21.5:	9.27:	31.8:	50.6:	16.3:	21.9:J
175		8.12:	15.1:	8.19:	13.7:	5.72:	9.25:J
176		3.43:	1.58:	5.38:	8.51:	1.97:	3.13:J
177		62.0:	79.9:	84.5:	146:	47.4:	75.6:J
178		164:	357:	109:	257:	93.4:	150:J
179		59.1:	67.8:	72.6:	127:	44.7:	69.2:J
180	180 + 193	756:C	1,940:C	514:C	1,650:C	523:C	576:C J
181		5.84:	13.6:	3.82:	11.5:	3.39:EMPC	4.84:J
182		3.00:	5.69:	2.14:EMPC	5.39:	2.46:EMPC	2.91:J
183	183 + 185	321:C	722:C	203:C	550:C	194:C	279:C J
184		4.75:	9.57:	2.70:	7.93:	2.38:	3.31:J
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0495:U	0.0683:U	0.0721:U	0.0777:U	0.192:U	0.133:UJ
187		520:	1,060:	503:	917:	381:	634:J
188		1.54:	2.85:	1.32:	2.43:	1.12:	1.67:J
189		8.59:	0.318:U	5.20:	17.2:	5.98:	6.73:J
190		131:	322:	78.1:	260:	78.2:	102:J
191		14.6:	36.9:	8.48:	28.6:	9.42:	11.8:J
192		0.0680:EMPC	0.0719:U	0.0870:EMPC	0.193:EMPC	0.208:U	0.144:UJ
193	180 + 193	C180	C180	C180	C180	C180	C180
194		75.0:	158:	52.9:	162:	57.7:	57.6:J
195		59.2:	158:	37.3:	133:	38.8:	40.3:J
196		49.0:	117:	32.4:	97.3:	34.2:	42.3:J
197	197 + 200	11.5:C	27.7:C	7.31:C	22.5:C	7.29:C	8.82:C J
198	198 + 199	83.8:C	153:C	73.8:C	132:C	67.1:C	87.0:C J
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		14.7:	37.4:	12.5:	25.7:	10.7:	16.3:J
202		91.1:	225:	55.0:	151:	48.2:	72.1:J
203		155:	420:	82.7:	296:	90.6:	122:J
204		0.259:	0.650:	0.133:EMPC	0.378:EMPC	0.129:U	0.187:J
205		6.54:	17.8:	4.58:	13.4:	3.91:	5.26:J
206		36.0:	88.4:	25.8:	78.8:	27.4:	34.1:J
207		8.85:	22.0:	5.72:	17.0:	6.57:	7.86:J
208		10.2:	21.8:	9.30:	17.5:	8.42:	12.4:J
209		15.1:	41.1:	13.1:	32.3:	12.9:	21.6:J
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)		22.0:J	37.5:J	15.9:J	38.4:J	12.3:J	19.3:J
Total PCBs as Congeners (KM-based)		21.9:J	37.5:J	15.9:J	38.3:J	12.2:J	19.2:J
Total PCBs as Congeners (KM-based, capped)		21.9:J	37.5:J	15.9:J	38.3:J	12.2:J	19.2:J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference SR-08 R-8 10/9/2008	Reference SR-09 R-9 7/24/2008	Reference SR-10 R-10 7/23/2008	Reference SR-11 R-11 3/3/2008	Reference SR-12 R-12 10/9/2008	Reference SR-13 R-13 7/23/2008
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.182	0.166 EMPC	0.360 EMPC	0.231 EMPC	0.185 EMPC	0.231 EMPC
2		0.411 EMPC	0.672 EMPC	0.631 EMPC	0.450	0.483 EMPC	0.440
3		0.236 EMPC	0.227 EMPC	0.428 EMPC	0.235 EMPC	0.245 EMPC	0.333 EMPC
4		2.10	2.49	4.05	2.74	1.50	2.36
5		0.229 U	0.199 U	0.371 U	0.207 U	0.140 U	0.220 U
6		1.10	1.70	2.18	1.70	0.818	1.75
7		0.256 EMPC	0.283 EMPC	0.523 EMPC	0.221	0.180	0.218 EMPC
8		4.49	5.79	8.77	5.86	4.02	6.09
9		0.366 EMPC	0.486	0.854	0.485 EMPC	0.286	0.310
10		0.213 U	0.187 U	0.345 U	0.195 U	0.131 U	0.207 U
11		135	145	188	153	204	177
12	12 + 13	0.219 C U	0.865 C EMPC	1.14 C	1.14 C EMPC	0.899 C	0.868 C EMPC
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.214 U	0.185 U	0.346 U	0.192 U	0.130 U	0.205 U
15		1.03	1.48	2.11	1.32	1.20	1.46
16		4.60	7.35	10.4	7.77	4.10	13.9
17		11.3	14.6	16.6	13.9	8.35	23.8
18	18 + 30	21.0 C	31.9 C	35.4 C	32.1 C	18.1 C	53.1 C
19		0.566	0.918	1.90	1.17	0.552	0.986
20	20 + 28	138 C	132 C	137 C	135 C	120 C	122 C
21	21 + 33	17.3 C	20.2 C	23.1 C	16.2 C	15.6 C	21.2 C
22		18.4	21.4	25.6	19.5	16.6	31.9
23		0.137 U	0.0960	0.179 U	0.161	0.0764 U	0.165 U
24		0.245	0.421	0.490 EMPC	0.476 EMPC	0.306	0.505 EMPC
25		2.80	2.82	3.63	2.52	2.79	3.72
26	26 + 29	14.5 C	14.6 C	16.3 C	15.1 C	14.2 C	15.5 C
27		1.25	2.25	2.91	2.21	1.17 EMPC	4.40
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		65.6	60.9	65.1	53.2	56.5	57.6
32		2.65	3.92	5.34	3.61	1.84	3.38
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.434	0.514 EMPC	0.480	0.494	0.527	0.367
35		0.141 U	0.0840 U	0.184 U	0.173 EMPC	0.148 EMPC	0.194 EMPC
36		0.117 U	0.0880 EMPC	0.153 U	0.117 EMPC	0.0724 U	0.157 U
37		1.73	3.61	6.08	3.97	2.59	2.41
38		0.127 U	0.0747 U	0.166 U	0.0917 U	0.129 EMPC	0.217 EMPC
39		0.651 EMPC	0.821	0.842	0.763 EMPC	0.589	1.32
40	40 + 41 + 71	20.4 C	27.1 C	39.5 C	23.7 C	18.6 C	29.1 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		14.4	24.8	31.6	22.6	0.0810 U	54.5
43		4.02	5.23	5.78	5.05	4.49	4.26
44	44 + 47 + 65	140 C	167 C	195 C	184 C	149 C	218 C
45	45 + 51	2.69 C	4.45 C	8.79 C	4.06 C	2.35 C EMPC	3.76 C
46		0.425 EMPC	0.753 EMPC	2.14 EMPC	0.814	0.447 EMPC	0.788
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		18.0	23.4	25.8	21.0	16.4	29.1
49	49 + 69	135 C	132 C	138 C	154 C	141 C	134 C
50	50 + 53	0.994 C	2.28 C	7.73 C	3.31 C	1.18 C EMPC	4.64 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		253	285	333	307	315	312
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.0740 EMPC	0.0687 U	0.131 EMPC	0.0833 U	0.0780 EMPC	0.102 EMPC
55		0.283 U	0.256 U	0.278 U	0.313 U	0.214 U	0.381 U
56		13.4	17.7	34.0	15.1	15.1	26.5
57		1.37	1.22	1.15	1.46	1.43	1.07 EMPC
58		1.14 EMPC	0.941	1.04	0.976	1.03 EMPC	0.607 EMPC
59	59 + 62 + 75	13.1 C	14.7 C	16.7 C	16.4 C	13.9 C	15.5 C
60		84.7	80.6	84.0	113	100	96.9
61	61 + 70 + 74 + 76	520 C	466 C	493 C	602 C	575 C	574 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		20.9	19.2	20.0	29.3	23.8	20.8
64		64.5	77.5	89.5	0.0727 U	71.0	77.5
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		393	380	389	536	477	481
67		3.37	3.13	3.69	3.16	3.69	4.39
68		3.57	3.39	3.49	4.12	4.16	3.46
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		6.68	5.74	6.17	7.90	8.43	5.17
73		0.0560 U	0.0595 U	0.0994 U	0.0732 U	0.0593 U	0.0525 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		13.9	13.2	17.8	13.8	17.7	21.3
78		0.272 U	0.246 U	0.269 U	0.302 U	0.206 U	0.367 U
79		2.53 EMPC	3.07	5.75 EMPC	3.47	2.58 EMPC	7.86
80		0.244 U	0.529	0.241 U	0.446 EMPC	0.423 EMPC	0.474
81		1.19 EMPC	1.04 EMPC	1.39 EMPC	1.42 EMPC	0.998 EMPC	1.56 EMPC
82		3.60	5.26	17.9	4.65	4.09	11.8 EMPC
83	83 + 99	1,060 C	940 C	1,220 C	1,720 C	1,490 C	1,290 C
84		7.56	12.8	43.3	12.4	10.8	22.4
85	85 + 116 + 117	280 C	269 C	335 C	456 C	403 C	368 C
86	86 + 87 + 97 + 108 + 119 + 125	235 C	256 C	366 C	322 C	289 C	411 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	14.9 C	23.7 C	51.1 C	21.8 C	20.0 C	33.8 C
89		0.486 EMPC	0.781 EMPC	1.92 EMPC	0.582	0.598 EMPC	1.29 U
90	90 + 101 + 113	688 C	746 C	925 C	926 C	953 C	1,050 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		176	181	227	262	254	207
93	93 + 95 + 98 + 100 + 102	166 C	198 C	283 C	232 C	240 C	238 C
94		0.258 U	0.123 U	0.326 U	0.226 U	0.248 U	1.33 U
95							

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference SR-08 R-8 10/9/2008	Reference SR-09 R-9 7/24/2008	Reference SR-10 R-10 7/23/2008	Reference SR-11 R-11 3/3/2008	Reference SR-12 R-12 10/9/2008	Reference SR-13 R-13 7/23/2008
128	128 + 166	367 C	353 C	465 C	682 C	550 C	614 C
129	129 + 138 + 160 + 163	2,660 C	2,550 C	3,310 C	4,910 C	4,120 C	5,200 C
130		71.4	72.1	93.2	95.1	88.0	101
131		1.41	1.48	4.08	1.37	1.72	3.67 EMPC
132		26.3	42.4	120	37.8	39.5	68.6
133		50.8	48.8	59.8	96.1	76.3	62.4
134	134 + 143	9.89 C	13.3 C	25.8 C	12.3 C	14.5 C	24.7 C
135	135 + 151 + 154	308 C	359 C	456 C	556 C	484 C	386 C
136		27.3	36.2	58.8	44.2	41.4	44.5
137		73.3	64.1	106	150	132	168
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	40.8 C	38.1 C	53.3 C	80.6 C	66.6 C	65.5 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		91.2	94.5	135	144	155	155
142		0.270 U	0.472 U	0.486 U	0.415 U	0.399 U	1.45 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		15.6	17.3	26.1	21.4	21.5	23.7
145		0.0546 U	0.0551 U	0.184 EMPC	0.0546 U	0.0788 U	0.112
146		413	421	531	769	645	642
147	147 + 149	95.5 C	156 C	322 C	164 C	139 C	243 C
148		2.63	2.67	3.11	3.92	3.39	2.59
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.145 EMPC	0.269 EMPC	0.773	0.268 EMPC	0.226	0.302 EMPC
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.571	0.691	1.02	0.890	0.904	1.07
153	153 + 168	2,960 C	3,130 C	4,000 C	6,740 C	5,350 C	7,400 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		3.39	3.10	4.40	6.36	4.76	3.29
156	156 + 157	192 C	178 C	270 C	374 C	322 C	402 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		219	191	265	415	338	383
159		1.39	1.46	2.68 EMPC	1.83	1.46 EMPC	1.26
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.187 U	0.327 U	0.336 U	0.288 U	0.276 U	1.00 U
162		10.2	8.85	11.6	18.8	15.2	14.1
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		36.5	49.7	57.7	58.0	56.3	55.8
165		1.98	1.89	2.26	3.87	2.85	2.15
166	128 + 166	C128	C128	C128	C128	C128	C128
167		73.9	81.1	101	142	136	170
168	153 + 168	C153	C153	C153	C153	C153	C153
169		2.94 U	3.84 U	4.56 U	5.86 U	3.84 U	5.05 U
170		196	181	281	425	340	297
171	171 + 173	121 C	112 C	150 C	263 C	190 C	177 C
172		36.5	33.8	49.7	65.1	58.7	46.0
173	171 + 173	C171	C171	C171	C171	C171	C171
174		15.7	22.8	47.4	21.9	21.9	24.7
175		7.83	7.42	9.47	12.8	10.1	12.6
176		2.40	3.50	8.24	3.44	3.43	6.51
177		65.8	80.4	115	93.7	79.6	127
178		136	131	159	247	189	193
179		52.6	68.1	93.6	78.8	74.4	99.4
180	180 + 193	584 C	576 C	841 C	1,360 C	1,020 C	998 C
181		4.27	3.94	5.73	9.47	7.52	9.42 EMPC
182		2.14	2.23	3.24 EMPC	4.87	3.17	6.30
183	183 + 185	242 C	233 C	319 C	508 C	379 C	362 C
184		3.47	3.25	4.93	7.63	5.13	3.80
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0565 U	0.0690 U	0.112 U	0.0644 U	0.0647 U	0.384 U
187		509	627	661	844	673	818
188		1.40 EMPC	1.31	1.67	2.45	1.95	2.45
189		6.40	5.93	9.63	14.2	11.5	9.74
190		98.2	98.7	135	227	172	146
191		10.3	10.2	14.7	25.6	17.5	19.2
192		0.0960	0.0960	0.121 U	0.199	0.104	0.427 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		53.1	55.1	84.5	130	104	71.4
195		41.6	44.3	66.2	124	83.2	70.8
196		32.4	34.7	54.3	90.8	62.5	50.3
197	197 + 200	8.12 C	8.57 C	12.2 C	20.6 C	14.6 C	13.5 C
198	198 + 199	67.5 C	81.0 C	96.6 C	130 C	112 C	93.6 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		12.2	14.6	17.6	26.8	21.6	27.6
202		70.4	71.3	84.0	161	120	118
203		98.9	113	151	290	193	188
204		0.194 EMPC	0.245	0.212 EMPC	0.401 EMPC	0.315	0.392 EMPC
205		4.93	5.08	7.20	13.0	8.62	8.12
206		31.0	31.1	46.3	66.0	45.8	42.1
207		6.60	6.47	10.3	16.2	11.1	9.85
208		10.1	10.5	13.5	17.9	14.0	13.7
209		16.8	16.9	23.6	34.6	24.0	20.9
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)		18.2 J	18.5 J	24.0 J	32.4 J	27.6 J	31.5 J
Total PCBs as Congeners (KM-based)		18.1 J	18.4 J	24.0 J	32.4 J	27.5 J	31.5 J
Total PCBs as Congeners (KM-based, capped)		18.1 J	18.4 J	24.0 J	32.4 J	27.5 J	31.5 J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.

1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.

RDL = Reported detection limit

KM-based = Kaplan-Meier-based with Efron's bias correction

KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference SR-14 R-14 10/10/2008	Reference SR-15 R-15 10/9/2008	Reference SR-16 R-16 10/10/2008	Reference SR-17 R-17 10/9/2008	Reference SR-18 R-18 7/24/2008	Forebay - Goose Island P10 090429110S C 4/29/2009
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.368 EMPC	0.175	0.163 EMPC	0.234 EMPC	0.228	0.437 EMPC
2		0.523	0.295 EMPC	0.396 EMPC	0.589	0.447 EMPC	0.294
3		0.471 EMPC	0.231 EMPC	0.241	0.274 EMPC	0.238	0.388 EMPC
4		2.46 EMPC	1.29	1.88	1.80	1.94	3.87 EMPC
5		0.605 U	0.290 U	0.251 U	0.245 U	0.407 U	0.519 U
6		1.36 EMPC	0.637	1.10	1.08	1.23 EMPC	2.16
7		0.572 U	0.268 U	0.233	0.298 EMPC	0.375 U	0.485 U
8		5.51	2.81	4.46	5.31	5.02	7.58
9		0.560 EMPC	0.259 U	0.272	0.380	0.406 EMPC	0.540 EMPC
10		0.562 U	0.273 U	0.236 U	0.230 U	0.383 U	0.462 U
11		183	109	177	264	139	34.1
12	12 + 13	0.580 C U	0.694 C	0.239 C U	0.233 C U	0.388 C U	0.534 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.565 U	0.270 U	0.233 U	0.227 U	0.378 U	0.507 U
15		1.10 EMPC	0.932	1.15 EMPC	1.88 EMPC	1.41	1.05 EMPC
16		7.31	2.89	6.85	5.43	6.97	8.56
17		12.9	5.33	9.92	12.2	11.4	17.8
18	18 + 30	28.1 C	13.2 C	23.7 C	27.9 C	26.3 C	37.6 C
19		1.03 EMPC	0.573	0.674	0.444	1.05 EMPC	1.26
20	20 + 28	142 C	67.2 C	76.9 C	155 C	117 C	155 C
21	21 + 33	21.3 C	8.28 C	12.8 C	23.4 C	17.2 C	29.7 C
22		23.5	8.69	15.4	21.2	16.8	23.1
23		0.210 U	0.171 U	0.233 U	0.152 EMPC	0.142 EMPC	0.143 EMPC
24		0.398	0.201	0.262 EMPC	0.357 EMPC	0.360	0.644 EMPC
25		3.39	1.33	2.14	3.37	2.69	2.42
26	26 + 29	16.4 C	7.57 C	9.32 C	17.9 C	13.9 C	14.2 C
27		2.01	0.839	1.73	1.70	1.90	3.15
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		70.6	27.5	38.7	80.1	55.9	38.0
32		3.64	1.12	1.70 EMPC	3.30	3.40	9.17
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.201 U	0.225 EMPC	0.349 EMPC	0.612	0.527	0.537
35		0.215 U	0.183 U	0.248 U	0.199 EMPC	0.142 U	0.123 U
36		0.179 U	0.162 U	0.221 U	0.146 EMPC	0.126 U	0.107 U
37		2.13	2.50	2.79 EMPC	3.33	2.64	2.36
38		0.194 U	0.162 U	1.25 U	0.268 EMPC	0.126 U	0.108 U
39		0.948	0.279 EMPC	0.496	0.948 EMPC	0.739	0.556
40	40 + 41 + 71	33.4 C	8.80 C	12.8 C	22.3 C	22.5 C	35.1 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		31.5	6.15	14.3	11.7	18.2	15.6
43		5.61	2.25	2.41	5.71	4.45	5.01
44	44 + 47 + 65	196 C	70.2 C	87.6 C	156 C	142 C	104 C
45	45 + 51	5.36 C	1.39 C EMPC	2.41 C	2.93 C	4.54 C	4.24 C
46		1.09	0.248 EMPC	0.225	0.394 EMPC	0.963 EMPC	0.608 EMPC
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		26.3	7.80	11.5	18.9	18.6	15.2
49	49 + 69	148 C	61.2 C	65.0 C	146 C	117 C	92.5 C
50	50 + 53	2.89 C	0.790 C	1.70 C	0.234 C EMPC	3.02 C EMPC	1.99 C EMPC
51	45 + 51	C45	C45	C45	C45	C45	C45
52		356	143	157	374	296	161
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.152 U	0.0919 U	0.0958 U	0.166 EMPC	0.132 EMPC	0.130 U
55		0.618 U	0.358 U	0.328 U	0.409 U	0.401 U	6.82
56		25.7	7.88	11.5	17.8	23.0	17.1
57		1.60 EMPC	0.745	0.639	1.70	1.23	0.714
58		1.55 EMPC	0.517 EMPC	0.567 EMPC	1.23 EMPC	0.762 EMPC	0.752 U
59	59 + 62 + 75	17.7 C	6.41 C	4.90 C	14.7 C	12.8 C	10.4 C
60		91.3	68.7	48.3	123	95.7	62.1
61	61 + 70 + 74 + 76	575 C	332 C	293 C	660 C	490 C	249 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		21.3	20.9	12.8	24.6	20.4	12.2
64		94.3	31.3	36.4	80.3	65.3	51.4
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		432	342	244	524	381	236
67		4.19	1.52	2.28	4.26	2.86	1.60
68		5.28	3.06	2.30 EMPC	5.20	3.34	0.811
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		7.11	4.59	3.79	8.47	6.59	3.30
73		0.135 U	0.0820 U	0.0832 U	0.0585 U	0.0940 U	0.103 U
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		19.4	16.0	14.0	25.9	13.2	7.99
78		0.596 U	0.344 U	0.316 U	0.394 U	0.386 U	0.772 U
79		4.54	2.03 EMPC	2.89	3.58	5.94	0.997
80		0.785 EMPC	0.428 EMPC	0.287 U	0.662	0.567 EMPC	0.675 U
81		1.57 EMPC	1.49 EMPC	0.829 EMPC	2.21 EMPC	1.22 EMPC	0.882 EMPC
82		10.4	2.35	3.81	2.79 EMPC	10.2 EMPC	4.24 EMPC
83	83 + 99	1,040 C	1,160 C	664 C	1,670 C	1,080 C	398 C
84		27.0	5.05	8.10	8.84	18.7	4.60
85	85 + 116 + 117	300 C	290 C	213 C	450 C	308 C	132 C
86	86 + 87 + 97 + 108 + 119 + 125	403 C	148 C	170 C	279 C	300 C	103 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	45.1 C	7.63 C	12.8 C	22.4 C	25.0 C	5.64 C
89		1.75 EMPC	0.306 U	0.497	1.23 EMPC	1.27 U	0.343 U
90	90 + 101 + 113	1,150 C	397 C	445 C	1,050 C	823 C	176 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		253	115	104	281	215	56.4
93	93 + 95 + 98 + 100 + 102	268 C	90.3 C	124 C	261 C	230 C	73.0 C
94	</						

**Table H-11**  
**Sculpin PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference SR-14 R-14 10/10/2008	Reference SR-15 R-15 10/9/2008	Reference SR-16 R-16 10/10/2008	Reference SR-17 R-17 10/9/2008	Reference SR-18 R-18 7/24/2008	Forebay - Goose Island P110 090429110S C 4/29/2009
128	128 + 166	391 C	570 C	344 C	653 C	519 C	194 C
129	129 + 138 + 160 + 163	2,960 C	4,940 C	2,800 C	5,620 C	4,110 C	1,130 C
130		127	48.8	56.5	102	102	18.2
131		3.25	0.829 EMPC	1.82 EMPC	2.13	2.35 EMPC	0.798 U
132		101	18.0	32.1	47.5	66.9	10.7
133		54.9	78.8	46.1	79.4	70.2	16.8
134	134 + 143	1.62 C U	5.99 C	0.467 C U	17.9 C	19.5 C	2.28 C
135	135 + 151 + 154	479 C	219 C	235 C	460 C	438 C	94.7 C
136		62.9	15.6	20.2	47.6	44.5	9.96
137		76.0	163	80.0	146	105	33.1
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	42.9 C	60.8 C	35.4 C	71.5 C	57.0 C	15.6 C
140	139 + 140	C139	C139	C139	C139	C139	C139
141		138	90.1	81.9	188	1.55 U	49.7
142		1.61 U	0.524 U	0.465 U	0.557 U	1.75 U	0.812 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		35.6	7.52	11.6	21.3	21.1	4.25
145		0.160 U	0.0861 U	0.0872 U	0.0896 U	0.132 U	0.113 U
146		517	627	410	661	617	114
147	147 + 149	315 C	64.2 C	119 C	158 C	225 C	38.4 C
148		4.41	1.17	1.65	3.16	3.46	0.473 EMPC
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.524 EMPC	0.126	0.106	0.242	0.258	0.107 U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		1.00	0.427 EMPC	0.225 EMPC	1.16 EMPC	0.828 EMPC	0.254 EMPC
153	153 + 168	3,230 C	6,360 C	4,080 C	5,380 C	4,970 C	1,050 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		3.71	4.95	2.35 EMPC	5.48	4.10	1.20 EMPC
156	156 + 157	203 C	402 C	193 C	350 C	257 C	106 C
157	156 + 157	C156	C156	C156	C156	C156	C156
158		215	356	194	395	314	86.7
159		3.35	1.54 EMPC	1.07 EMPC	2.56	2.40	0.567 U
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		1.12 U	0.363 U	0.323 U	0.386 U	1.21 U	0.570 U
162		10.1	19.4	9.38	17.2	13.7	4.48
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		71.6	21.2	34.3	68.2	66.0	23.4
165		1.91	3.33 EMPC	1.75	3.18 EMPC	2.26	0.718
166	128 + 166	C128	C128	C128	C128	C128	C128
167		96.8	146	91.0	139	99.2	34.8
168	153 + 168	C153	C153	C153	C153	C153	C153
169		3.66 U	9.29 U	4.88 U	7.12 U	4.67 U	1.31 U
170		205	398	186	342	252	113
171	171 + 173	120 C	221 C	108 C	194 C	150 C	47.8 C
172		41.6	56.0	31.3 EMPC	60.0	48.7	17.4
173	171 + 173	C171	C171	C171	C171	C171	C171
174		49.3	15.4	14.2	31.4	30.5	8.12
175		12.1	9.08	6.65	11.8	11.5	2.37
176		8.71	1.82 EMPC	2.90 EMPC	4.44	4.85 EMPC	0.687
177		155	50.7	63.3	94.0	88.8	19.3
178		159	195	115	196	173	41.6
179		123	31.6	48.6	96.2	79.0	11.5
180	180 + 193	630 C	1,510 C	670 C	1,020 C	756 C	264 C
181		4.38 EMPC	10.8 EMPC	5.26 EMPC	6.52	7.05	1.52
182		2.74	5.63	4.19 EMPC	3.01 EMPC	7.02 EMPC	1.28 EMPC
183	183 + 185	273 C	445 C	239 C	396 C	316 C	89.0 C
184		3.62	6.29	3.05 EMPC	6.34	4.22	0.886
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.154 U	0.417 U	0.352 U	0.402 U	0.332 U	0.149 U
187		889	668	515	700	723	200
188		2.32	2.02	1.51	1.92	2.28	0.414 EMPC
189		6.90	15.4	8.20	11.0 EMPC	9.20	3.83
190		102	229	101	158	120	44.0
191		11.0	32.9	14.5	19.3	16.5	5.34
192		0.167 U	0.464 U	0.392 U	0.447 U	0.369 U	0.157 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		56.8	144	67.3	107	74.8	35.7
195		43.5	127	56.8	77.0	59.6	23.6
196		38.0	95.7	40.4	60.8	46.6	19.6
197	197 + 200	10.8 C	18.6 C	9.27 C	15.7 C	11.2 C	3.63 C
198	198 + 199	99.5 C	107 C	70.8 C	109 C	99.0 C	45.2 C
199	198 + 199	C198	C198	C198	C198	C198	C198
200	197 + 200	C197	C197	C197	C197	C197	C197
201		20.1	21.6	16.9	20.7	18.8	3.32
202		74.1	129	72.3	115	86.6	26.9
203		111	274	141	184	137	60.7
204		0.174	0.367 U	0.364 U	0.368 U	0.482 EMPC	0.132
205		5.00	12.3	5.91	8.02	6.69	3.29
206		30.8	63.1	35.6	49.3	37.6	21.3
207		6.81	15.9	8.05	9.45	8.40	3.24
208		12.4	13.5	9.81	13.4	11.9	6.62
209		15.8	30.6	17.2	24.2	20.4	11.0
<b>Total PCBs as Congeners in ug/kg, wet weight</b>							
Total PCBs as Congeners (full EMPC/full SDL)		22.3 J	27.2 J	17.4 J	30.6 J	24.3 J	8.17 J
Total PCBs as Congeners (KM-based)		22.3 J	27.2 J	17.3 J	30.5 J	24.2 J	8.14 J
Total PCBs as Congeners (KM-based, capped)		22.3 J	27.2 J	17.3 J	30.5 J	24.2 J	8.14 J

**Notes:**

C = Concentration represents coeluting congeners.  
 U = The analyte was not detected above the RDL.  
 J = The reported value is an estimate.  
 UJ = The analyte was not detected. The RDL is an estimate.  
 ng/kg = nanogram/kilogram  
 ug/kg = micrograms/kilogram  
 pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.  
 1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.  
 RDL = Reported detection limit  
 KM-based = Kaplan-Meier-based with Efron's bias correction  
 KM-based, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-12**  
**High-Volume Surface Water PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay - P52		Forebay - P53		Forebay - P54	
		08021252XA D 2/12/2008 (Filter)	08021252XA D 2/12/2008 (Column)	08022453XA D 2/24/2008 (Filter)	08022453XA D 2/24/2008 (Column)	08021354XA D 2/13/2008 (Filter)	08021354XA D 2/13/2008 (Column)
1		0.13	0.385	0.021U	0.191	0.051U	0.267
2		0.265	0.371	0.042U	0.27	0.125	0.293
3		0.201	0.324	0.041U	0.162U	0.14	0.249
4		0.02U	0.369	0.063U	0.409	0.082U	0.42
5		0.007U	0.014 EMPC	0.004U	0.022	0.0069U	0.012
6		0.009U	0.101	0.0037U	0.115	0.011U	0.109
7		0.011U	0.036 U	0.009U	0.031 U	0.0064U	0.033U
8		0.043 U	0.416	0.0034U	0.518	0.051U	0.487
9		0.007U	0.029 U	0.005U	0.039	0.0061U	0.039
10		0.0058U	0.015 EMPC	0.006	0.017	0.011EMPC	0.021
11		4.12	83.5	10.8	137	7.16	82.4
12	12 + 13	0.054 C	0.0091 C U	0.004 C U	0.0051 C U	0.0069 C U	0.0049 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0067U	0.009	0.0038U	0.01	0.0064U	0.008
15		0.054 U	0.654	0.07U	0.741	0.073U	0.531
16		0.034 U	0.261	0.039U	0.287	0.034U	0.279
17		0.032 U	0.24	0.104	0.267	0.11	0.253
18	18 + 30	0.071 C U	0.588 C	0.104 C U	0.637 C	0.079 C U	0.64 C
19		0.01U	0.097	0.208	0.1	0.306	0.101
20	20 + 28	0.165 C U	0.67 C	0.259 C	0.741 C	0.216 C	0.656 C
21	21 + 33	0.053 C U	0.269 C	0.096 C U	0.3 C	0.081 C U	0.257 C
22		0.051 U	0.25	0.077 EMPC	0.271	0.068	0.235
23		0.0017U	0.006 U	0.004U	0.003 U	0.018U	0.0038 U
24		0.0014U	0.015 EMPC	0.0008U	0.014 EMPC	0.0014U	0.012 EMPC
25		0.01U	0.047 EMPC	0.028	0.052	0.028	0.044
26	26 + 29	0.023 C U	0.112 C	0.046 C	0.126 C	0.041 C	0.116 C
27		0.007 U	0.045	0.062	0.051	0.074	0.05
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.121 U	0.532	0.178	0.632	0.148	0.555
32		0.015 U	0.121	0.066	0.14	0.078	0.138
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0016 U	0.005 U	0.006U	0.003 U	0.016U	0.0038 U
35		0.018	0.079	0.035	0.121	0.028	0.081
36		0.006 EMPC	0.02 EMPC	0.009	0.031	0.003 EMPC	0.02
37		0.057 U	0.12	0.082	0.147	0.078 EMPC	0.121
38		0.0017 U	0.0049 U	0.004 EMPC	0.003 EMPC	0.02 EMPC	0.007
39		0.0017 U	0.006 EMPC	0.002	0.0029 U	0.0028 U	0.0037 U
40	40 + 41 + 71	0.081 C	0.21 C	0.204 C	0.213 C	0.223 C	0.198 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.037	0.101	0.082	0.113	0.083	0.097
43		0.004 EMPC	0.0033 U	0.025	0.027	0.03	0.021
44	44 + 47 + 65	0.202 C U	0.53 C	1.61 C	0.707 C	1.95 C	0.506 C U
45	45 + 51	0.031 C U	0.096 C U	0.381 C	0.11 C U	0.483 C	0.088 C U
46		0.006 U	0.033	0.023 EMPC	0.035 EMPC	0.022 EMPC	0.032
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.03	0.0027 U	0.051	0.0013 U	0.047	0.085
49	49 + 69	0.104 C	0.289 C	0.484 C	0.309 C	0.574 C	0.275 C
50	50 + 53	0.021 C	0.083 C EMPC	0.262 C	0.08 C	0.344 C	0.085 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		0.254	0.878	0.629	0.941	0.629	0.856
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.002 U	0.004 U	0.121	0.002 U	0.175	0.004 U
55		0.005 EMPC	0.0096 U	0.0051 U	0.006 EMPC	0.009 EMPC	0.01
56		0.101	0.121 EMPC	0.135	0.147	0.125	0.12
57		0.0045 U	0.009 U	0.005	0.0055 U	0.01	0.0061 U
58		0.0047 U	0.0091 U	0.0052 U	0.0056 U	0.0048 U	0.0061 U
59	59 + 62 + 75	0.016 C	0.045 C	0.076 C	0.047 C	0.086 C	0.046 C EMPC
60		0.056 EMPC	0.076	0.073	0.086	0.065	0.074
61	61 + 70 + 74 + 76	0.429 C	0.669 C	0.574 C	0.744 C	0.558 C	0.664 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.009	0.019 EMPC	0.012	0.017	0.015 EMPC	0.009
64		0.083	0.201	0.118	0.225	0.106	0.198
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		0.23	0.276	0.314	0.277	0.319	0.283
67		0.007 EMPC	0.01	0.006	0.012	0.009 EMPC	0.0055 U
68		0.007 U	0.014 U	0.022 U	0.021 U	0.025 U	0.0065 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.0044 U	0.0089 U	0.008 EMPC	0.0054 U	0.012	0.006 U
73		0.0015 U	0.015 EMPC	0.027	0.016	0.038	0.003
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		0.031 U	0.033 U	0.056	0.077 EMPC	0.046	0.033 U
78		0.005 U	0.0096 U	0.0055 U	0.0059 U	0.0051 U	0.0064 U
79		0.008 EMPC	0.0085 U	0.013	0.009 EMPC	0.013	0.0057 U
80		0.004 U	0.0083 U	0.0044 U	0.0051 U	0.0045 U	0.0056 U
81		0.0045 U	0.0098 U	0.0052 U	0.0059 U	0.006 U	0.0064 U
82		0.06	0.047	0.082	0.063	0.073	0.049 EMPC
83	83 + 99	0.295 C	0.257 C	0.922 C	0.31 C	0.973 C	0.243 C
84		0.091	0.147	0.19	0.168	0.202	0.141
85	85 + 116 + 117	0.101 C	0.065 C EMPC	0.178 C	0.104 C	0.173 C	0.076 C
86	86 + 87 + 97 + 108 + 119 + 125	0.358 C	0.339 C	0.717 C	0.463 C	0.685 C	0.332 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	0.057 C	0.069 C EMPC	0.202 C	0.071 C	0.249 C	0.065 C EMPC
89		0.005 EMPC	0.006 EMPC	0.007 EMPC	0.007 EMPC	0.009 EMPC	0.005 EMPC
90	90 + 101 + 113	0.542 C	0.54 C	1.54 C	0.633 C	1.78 C	0.505 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		0.108	0.104	0.337	0.117	0.421	0.1
93	93 + 95 + 98 + 100 + 102	0.323 C	0.548 C	1.25 C	0.627 C	1.43 C	0.51 C
94		0.0025 U	0.004	0.054	0.003 U	0.079	0.0025 U
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		0.003	0.004	0.026	0.005 EMPC	0.028	0.002 EMPC
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
99	83 + 99	C83	C83	C83	C83	C83	C83
100	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
101	90 + 101 + 113	C90	C90	C90	C90	C90	C90
102	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
103		0.003	0.0029 U	0.062	0.0024 U	0.082	0.003 EMPC
104		0.001 U	0.002 U	0.022 U	0.001 U	0.035 EMPC	0.0012 U
105		0.221	0.119	0.339	0.163	0.332	0.114
106		0.0039 U	0.0049 U	0.0049 U	0.007	0.0097 U	0.0038 U
107	107 + 124	0.023 C	0.01 C EMPC	0.037 C EMPC	0.021 C EMPC	0.035 C	0.017 C EMPC
108	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
109		0.046	0.034	0.075	0.041 EMPC	0.078	0.027 EMPC
110	110 + 115	0.644 C	0.575 C	1.08 C	0.721 C	1.04 C	0.551 C
111		0.0018 U	0.0025 U	0.003	0.0021 U	0.0012 U	0.0017 U

**Table H-12**  
**High-Volume Surface Water PCB Congener Analysis Results**  
**(Page 2 of 6)**

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay - P52		Forebay - P53		Forebay - P54	
		08021252XA D 2/12/2008 (Filter)	08021252XA D 2/12/2008 (Column)	08022455XA D 2/24/2008 (Filter)	08022453XA D 2/24/2008 (Column)	08021354XA D 2/13/2008 (Filter)	08021354XA D 2/13/2008 (Column)
112		0.0018 U	0.0025 U	0.0017 U	0.0021 U	0.072	0.0017 U
113	90 + 101 + 113	C90	C90	C90	C90	C90	C90
114		0.017 U	0.012 U	0.02 U	0.009 U	0.025 U	0.008 U
115	110 + 115	C110	C110	C110	C110	C110	C110
116	85 + 116 + 117	C85	C85	C85	C85	C85	C85
117	85 + 116 + 117	C85	C85	C85	C85	C85	C85
118		0.518	0.36	1.07	0.499	0.947	0.325
119	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
120		0.0017 U	0.0023 U	0.007	0.002 U	0.009 EMPC	0.0016 U
121		0.0018 U	0.0024 U	0.007	0.0021 U	0.009	0.0017 U
122		0.008 EMPC	0.0053 U	0.01 EMPC	0.0034 U	0.0106 U	0.0041 U
123		0.013 U	0.007 U	0.017 U	0.009 EMPC	0.018 U	0.0037 U
124	107 + 124	C107	C107	C107	C107	C107	C107
125	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
126		0.004 U	0.0054 U	0.0057 U	0.006 U	0.0112 U	0.0042 U
127		0.0041 U	0.0047 U	0.0051 U	0.003 U	0.0097 U	0.0036 U
128	128 + 166	0.13 C	0.04 C	0.344 C	0.053 C	0.389 C	0.036 C
129	129 + 138 + 160 + 163	0.864 C	0.288 C	4.18 C	0.379 C	4.43 C	0.246 C
130		0.052	0.019	0.15	0.024	0.159	0.018
131		0.008	0.004 U	0.024	0.006 EMPC	0.024 EMPC	0.003 U
132		0.209	0.094	0.74	0.115	0.799	0.081
133		0.015 EMPC	0.0038 U	0.061	0.007 U	0.076	0.006 U
134	134 + 143	0.038 C	0.019 C EMPC	0.134 C	0.021 C	0.175 C	0.017 C
135	135 + 151 + 154	0.209 C	0.124 C	1.19 C	0.116 C	1.6 C	0.105 C
136		0.063 EMPC	0.038	0.32	0.039	0.393	0.031
137		0.04	0.012 EMPC	0.08	0.015	0.07 EMPC	0.009
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.012 C	0.0036 C U	0.027 C EMPC	0.008 C	0.031 C	0.003 C EMPC
140	139 + 140	C139	C139	C139	C139	C139	C139
141		0.129	0.044	0.8	0.05	1	0.039
142		0.0023 U	0.004 U	0.009 U	0.0014 U	0.012 U	0.003 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		0.027	0.016	0.143	0.014 EMPC	0.188	0.012
145		0.0008 U	0.0015 U	0.001 EMPC	0.0011 U	0.002 EMPC	0.0013 U
146		0.115	0.047	0.563	0.055	0.686	0.044
147	147 + 149	0.54 C	0.257 C	2.75 C	0.275 C	2.94 C	0.228 C
148		0.002	0.0018 U	0.012	0.0013 U	0.016	0.0016 U
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.001 EMPC	0.0014 U	0.011	0.001 U	0.016	0.0012 U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.001 EMPC	0.0013 U	0.011	0.001 U	0.017	0.0012 U
153	153 + 168	0.686 C	0.261 C	4.13 C	0.301 C	4.99 C	0.214 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.002 U	0.002 U	0.006 U	0.001 U	0.011 U	0.002 U
156	156 + 157	0.085 C	0.026 C U	0.319 C	0.036 C	0.359 C	0.023 C U
157	156 + 157	C156	C156	C156	C156	C156	C156
158		0.07	0.029	0.284	0.031	0.351	0.021 EMPC
159		0.008 EMPC	0.0027 U	0.036 EMPC	0.003 EMPC	0.056	0.002 U
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.0016 U	0.0027 U	0.0062 U	0.001 U	0.0085 U	0.0021 U
162		0.0017 U	0.0029 U	0.0068 U	0.001 U	0.0088 U	0.0022 U
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		0.056	0.018	0.169	0.025	0.209	0.014
165		0.0019 U	0.0031 U	0.0072 U	0.0011 U	0.0096 U	0.0023 U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		0.033	0.014	0.139	0.013	0.148	0.01
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.0017 U	0.0029 U	0.0066 U	0.0014 U	0.0088 U	0.0021 U
170		0.161	0.033	1.51	0.032	2.08	0.019 U
171	171 + 173	0.056 C EMPC	0.011 C	0.398 C	0.011 C EMPC	0.539 C	0.006 C EMPC
172		0.028	0.009 EMPC	0.247	0.006	0.343	0.006
173	171 + 173	C171	C171	C171	C171	C171	C171
174		0.168	0.051 U	0.878	0.046 U	1.18	0.03 U
175		0.008 EMPC	0.0016 U	0.047	0.001 EMPC	0.069	0.002 EMPC
176		0.019	0.008 EMPC	0.131	0.006 EMPC	0.178	0.005 EMPC
177		0.121 EMPC	0.033	0.835	0.03	1.19	0.023
178		0.043	0.016	0.245	0.015 EMPC	0.337	0.011 EMPC
179		0.068	0.023 EMPC	0.391	0.02	0.499	0.015
180	180 + 193	0.359 C	0.115 C U	3.51 C	0.107 C U	4.82 C	0.061 C U
181		0.001 U	0.0016 U	0.006	0.0012 U	0.012	0.0014 U
182		0.002 U	0.002 U	0.008 U	0.002 U	0.012 U	0.0013 U
183	183 + 185	0.129 C	0.04 C EMPC	0.907 C	0.039 C U	1.27 C	0.023 C U
184		0.002 EMPC	0.0011 U	0.003 EMPC	0.0009 U	0.002 EMPC	0.001 U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.0008 U	0.0012 U	0.0009 U	0.0009 U	0.0009 U	0.0011 U
187		0.265	0.112 U	1.7	0.09 U	2.47	0.07 U
188		0.002 U	0.001 U	0.004 U	0.0008 U	0.008 U	0.0009 U
189		0.007 U	0.004 U	0.064	0.0022 U	0.09 EMPC	0.0025 U
190		0.038	0.008	0.287	0.009	0.409	0.006 EMPC
191		0.01 EMPC	0.002 EMPC	0.055	0.0009 U	0.076	0.001 U
192		0.0009 U	0.0014 U	0.001 U	0.001 U	0.001 U	0.0012 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		0.075	0.032 U	0.656	0.029 U	0.88	0.01 U
195		0.028	0.008	0.241	0.01 EMPC	0.302	0.005 EMPC
196		0.038	0.031	0.257	0.0		

**Table H-12**  
**High-Volume Surface Water PCB Congener Analysis Results**  
**(Page 3 of 6)**

IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay - P55		Forebay - P56		Reference - P57		Reference - P58	
		08022555XA D 2/25/2008 (Filter)	08022555XA D 2/25/2008 (Column)	08022156XA D 2/26/2008 (Filter)	08022156XA D 2/26/2008 (Column)	08022757XA D 2/27/2008 (Filter)	08022757XA D 2/27/2008 (Column)	08030758XA D 3/7/2008 (Filter)	08030758XA D 3/7/2008 (Column)
1		0.019 U	0.197	0.026 U	0.211	0.01 U	0.164	0.016 U	0.185
2		0.055	0.256	0.069	0.282	0.033 U	0.291	0.034 U	0.236
3		0.033 U	0.133	0.057 U	0.192 U	0.016 U	0.132	0.028 U	0.135
4		0.03 U	0.43	0.033 U	0.496	0.024 U	0.364	0.024 U	0.392
5		0.0065 U	0.02	0.0053 U	0.02	0.0071 U	0.023	0.005 U	0.013
6		0.011 U	0.108	0.017 U	0.127	0.009 U	0.114	0.012 U	0.106
7		0.013 U	0.034 U	0.015 U	0.038 U	0.008 U	0.029 U	0.005 U	0.037 U
8		0.055 U	0.487	0.09 U	0.487	0.045 U	0.497	0.056 U	0.501
9		0.007 U	0.037	0.006 U	0.045	0.0063 U	0.038	0.0045 U	0.037
10		0.0054 U	0.016	0.0045 U	0.021 EMPC	0.006 U	0.018	0.0042 U	0.017
11		9.26	139	9.18	125	13.3	140	7.85	91.6
12	12 + 13	0.0065 C U	0.0054 C U	0.0053 C U	0.0052 C U	0.0071 C U	0.0081 C U	0.005 C U	0.385 C
13	12 + 13	C12	C12	C12	C12	C12	C12	C12	C12
14		0.0061 U	0.011	0.005 U	0.009 EMPC	0.0067 U	0.0077 U	0.0047 U	0.01
15		0.065 U	0.586 EMPC	0.141	0.275 U	0.044 U	0.261	0.056 U	0.761
16		0.032 U	0.295	0.074	0.287	0.031 U	0.288	0.038 U	0.289
17		0.035 U	0.261	0.073	0.292	0.039 U	0.244	0.039 U	0.25
18	18 + 30	0.081 C U	0.647 C	0.146 C U	0.666 C	0.072 C U	0.6 C	0.088 C U	0.646 C
19		0.014 U	0.097	0.018 U	0.106	0.013 U	0.093	0.014 U	0.091
20	20 + 28	0.202 C	0.745 C	0.452 C	0.717 C	0.198 C	0.655 C	0.205 C	1.02 C
21	21 + 33	0.073 C U	0.284 C	0.198 C	0.283 C	0.082 C U	0.306 C	0.08 C U	0.022 C U
22		0.069 EMPC	0.29	0.158	0.268	0.07	0.283	0.076	0.267
23		0.0018 U	0.004 U	0.0022 U	0.004 U	0.002 U	0.0057 U	0.0029 U	0.0025 U
24		0.001 EMPC	0.012	0.003 EMPC	0.013 EMPC	0.0018 U	0.011	0.002	0.012
25		0.013 U	0.047 EMPC	0.029	0.044	0.013 U	0.05	0.012 U	0.049
26	26 + 29	0.029 C U	0.125 C	0.064 C	0.127 C	0.027 C U	0.123 C	0.028 C U	0.124 C
27		0.007 U	0.051	0.014	0.05	0.007 U	0.047	0.007 U	0.054
28	20 + 28	C20	C20	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18	C18	C18
31		0.156	0.61	0.356	0.609	0.151	0.559	0.156	0.612
32		0.018 U	0.142	0.032 U	0.141	0.016 U	0.145 EMPC	0.026 U	0.149
33	21 + 33	C21	C21	C21	C21	C21	C21	C21	C21
34		0.0018 U	0.006 U	0.0022 U	0.006 U	0.003 U	0.0057 U	0.0029 U	0.003 U
35		0.029 EMPC	0.122	0.038	0.101	0.043	0.11	0.03 EMPC	0.091
36		0.009 EMPC	0.029	0.009	0.032	0.01	0.025	0.007	0.021
37		0.061 U	0.124	0.12	0.131	0.065	0.127	0.071	0.146
38		0.0019 U	0.0039 U	0.006 EMPC	0.006 EMPC	0.002 EMPC	0.0056 U	0.0031 U	0.013 EMPC
39		0.002	0.006 EMPC	0.003 EMPC	0.0035 U	0.002 EMPC	0.0056 U	0.003 U	0.005
40	40 + 41 + 71	0.091 C	0.215 C	0.153 C	0.196 C	0.097 C	0.185 C	0.098 C	0.219 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40	C40	C40
42		0.057	0.113	0.084	0.101	0.055	0.102	0.065	0.123
43		0.008 EMPC	0.022 EMPC	0.014 EMPC	0.0024 U	0.007 EMPC	0.017 EMPC	0.008	0.021
44	44 + 47 + 65	0.268 C U	0.617 C	0.46 C	0.525 C U	0.27 C U	0.543 C	0.341 C	0.801 C
45	45 + 51	0.033 C U	0.093 C	0.048 C U	0.09 C U	0.033 C U	0.085 C	0.038 C U	0.11 C
46		0.009 EMPC	0.033	0.014 EMPC	0.031 EMPC	0.009	0.03	0.01 EMPC	0.033
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44	C44	C44
48		0.037	0.0024 U	0.057	0.0019 U	0.04	0.08 EMPC	0.04	0.002 U
49	49 + 69	0.14 C	0.304 C	0.214 C	0.274 C	0.126 C	0.243 C	0.135 C	0.3 C
50	50 + 53	0.021 C	0.091 C	0.031 C	0.079 C	0.02 C U	0.071 C	0.026 C	0.092 C
51	45 + 51	C45	C45	C45	C45	C45	C45	C45	C45
52		0.359	0.935	0.556	0.846	0.333	0.754	0.37	0.99
53	50 + 53	C50	C50	C50	C50	C50	C50	C50	C50
54		0.001 U	0.002 U	0.001 U	0.004 U	0.003 U	0.004 U	0.002 U	0.0014 U
55		0.0073 U	0.01	0.0081 U	0.0077 U	0.0056 U	0.0072 U	0.004 U	0.008
56		0.116	0.149	0.181	0.134	0.114	0.126	0.131	0.14
57		0.007 U	0.0057 U	0.0078 U	0.0073 U	0.0054 U	0.0068 U	0.0039 U	0.0068 U
58		0.0071 U	0.0057 U	0.0079 U	0.0073 U	0.0055 U	0.0069 U	0.0039 U	0.0069 U
59	59 + 62 + 75	0.021 C	0.045 C	0.027 C	0.043 C	0.021 C	0.042 C EMPC	0.022 C EMPC	0.052 C
60		0.071	0.076	0.104	0.073	0.062	0.068 EMPC	0.069	0.075
61	61 + 70 + 74 + 76	0.563 C	0.687 C	1 C	0.678 C	0.515 C	0.624 C	0.583 C	0.791 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59	C59	C59
63		0.011 EMPC	0.011 EMPC	0.014	0.011 EMPC	0.01	0.01	0.011	0.016
64		0.11	0.21	0.17	0.205	0.097	0.184	0.102	0.217
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44	C44	C44
66		0.282	0.302	0.43	0.281	0.251	0.26	0.276	0.313
67		0.008	0.01	0.009	0.012 EMPC	0.006	0.012 EMPC	0.008	0.013 EMPC
68		0.0069 U	0.011 U	0.015 U	0.0079 U	0.0053 U	0.014 U	0.009 U	0.017 U

**Table H-12**  
**High-Volume Surface Water PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Forebay - P55		Forebay - P56		Reference - P57		Reference - P58	
		08022555XA D 2/25/2008 (Filter)	08022555XA D 2/25/2008 (Column)	08022156XA D 2/26/2008 (Filter)	08022156XA D 2/26/2008 (Column)	08022757XA D 2/27/2008 (Filter)	08022757XA D 2/27/2008 (Column)	08030758XA D 3/7/2008 (Filter)	08030758XA D 3/7/2008 (Column)
112	90 + 101 + 113	0.002 EMPC	0.0013 U	0.0014 U	0.0017 U	0.0019 U	0.0025 U	0.0012 U	0.0018 U
113		C90	C90	C90	C90	C90	C90	C90	C90
114	110 + 115	0.021 U	0.015 U	0.02 U	0.01 U	0.014 U	0.011 U	0.02 U	0.011 U
115	85 + 116 + 117	C110	C110	C110	C110	C110	C110	C110	C110
116	85 + 116 + 117	C85	C85	C85	C85	C85	C85	C85	C85
117	85 + 116 + 117	C85	C85	C85	C85	C85	C85	C85	C85
118		0.825	0.448	1.07	0.361	0.743	0.378	0.932	0.593
119	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86	C86	C86
120		0.005 EMPC	0.0012 U	0.004 EMPC	0.0016 U	0.004 EMPC	0.0023 U	0.005	0.002
121		0.0014 U	0.0013 U	0.0014 U	0.0017 U	0.0019 U	0.0025 U	0.0012 U	0.0019 U
122		0.0044 U	0.006 EMPC	0.007 EMPC	0.0057 U	0.006 EMPC	0.0072 U	0.007	0.004 EMPC
123		0.015 U	0.006 U	0.023 U	0.01 EMPC	0.017 U	0.007 U	0.019 U	0.014 U
124	107 + 124	C107	C107	C107	C107	C107	C107	C107	C107
125	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86	C86	C86
126		0.0046 U	0.006 U	0.0059 U	0.0057 U	0.0055 U	0.0068 U	0.007 U	0.006 U
127		0.004 U	0.0023 U	0.005 U	0.005 U	0.0049 U	0.0063 U	0.0037 U	0.0029 U
128	128 + 166	0.167 C	0.043 C	0.154 C	0.033 C	0.121 C	0.038 C EMPC	0.127 C	0.044 C
129	129 + 138 + 160 + 163	1.07 C	0.319 C	1 C	0.255 C	0.809 C	0.29 C	1.04 C	0.375 C
130		0.067	0.022	0.06	0.018 EMPC	0.043 EMPC	0.017 EMPC	0.049	0.02
131		0.008 EMPC	0.004 EMPC	0.012	0.004 EMPC	0.007 EMPC	0.0044 U	0.007	0.0034 U
132		0.238	0.102	0.255	0.088 EMPC	0.176	0.078	0.2	0.111
133		0.015	0.006 U	0.015 EMPC	0.004 U	0.012 EMPC	0.004 U	0.011 EMPC	0.005 U
134	134 + 143	0.04 C	0.016 C EMPC	0.041 C EMPC	0.018 C EMPC	0.026 C	0.019 C	0.025 C EMPC	0.021 C EMPC
135	135 + 151 + 154	0.276 C	0.127 C	0.25 C	0.116 C	0.194 C	0.101 C	0.237 C	0.133 C
136		0.075	0.04 EMPC	0.074	0.033	0.053	0.0021 U	0.061	0.043
137		0.043 EMPC	0.014	0.041	0.013 EMPC	0.033	0.013	0.037	0.012
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129	C129
139	139 + 140	0.016 C	0.003 C U	0.019 C	0.004 C EMPC	0.013 C EMPC	0.004 C U	0.012 C	0.0031 C U
140	139 + 140	C139	C139	C139	C139	C139	C139	C139	C139
141		0.126	0.041	0.123	0.034 EMPC	0.093	0.033	0.1	0.044
142		0.0055 U	0.0033 U	0.0033 U	0.0026 U	0.0023 U	0.0044 U	0.0043 U	0.0034 U
143	134 + 143	C134	C134	C134	C134	C134	C134	C134	C134
144		0.03	0.013 EMPC	0.035	0.014 EMPC	0.023	0.012 EMPC	0.025	0.015
145		0.0008 U	0.0012 U	0.0008 U	0.0012 U	0.0008 U	0.0022 U	0.0009 U	0.0013 U
146		0.159	0.053	0.142	0.044	0.125	0.049	0.161	0.061
147	147 + 149	0.672 C	0.282 C	0.65 C	0.23 C	0.506 C	0.225 C	0.634 C	0.322 C
148		0.003 EMPC	0.0015 U	0.002 EMPC	0.0015 U	0.002 EMPC	0.0027 U	0.001 EMPC	0.0016 U
149	147 + 149	C147	C147	C147	C147	C147	C147	C147	C147
150		0.001 EMPC	0.0011 U	0.001 EMPC	0.0011 U	0.002 EMPC	0.0021 U	0.001 EMPC	0.0012 U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135	C135	C135
152		0.0008 U	0.0011 U	0.0008 U	0.0011 U	0.001 EMPC	0.002 U	0.0008 U	0.001 EMPC
153	153 + 168	1.04 C	0.304 C	0.881 C	0.239 C	0.834 C	0.28 C	1.18 C	0.406 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135	C135	C135
155		0.002 U	0.002 U	0.004 U	0.001 U	0.002 U	0.0018 U	0.003 U	0.001 U
156	156 + 157	0.11 C	0.028 C U	0.101 C	0.023 C U	0.085 C	0.026 C U	0.094 C	0.036 C U
157	156 + 157	C156	C156	C156	C156	C156	C156	C156	C156
158		0.082	0.029	0.084	0.022	0.062	0.022	0.074	0.031
159		0.007	0.0022 U	0.008	0.0018 U	0.005 EMPC	0.003 U	0.005 EMPC	0.002 EMPC
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129	C129
161		0.0039 U	0.0023 U	0.0023 U	0.0018 U	0.0016 U	0.003 U	0.0031 U	0.0024 U
162		0.004 U	0.0024 U	0.004 EMPC	0.0019 U	0.004	0.0032 U	0.0032 U	0.0023 U
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129	C129	C129
164		0.057	0.021	0.06	0.018	0.041 EMPC	0.014	0.048 EMPC	0.022
165		0.0043 U	0.0026 U	0.0026 U	0.0021 U	0.0018 U	0.0034 U	0.0034 U	0.0027 U
166	128 + 166	C128	C128	C128	C128	C128	C128	C128	C128
167		0.049	0.014 U	0.044	0.011 EMPC	0.041	0.013 U	0.057	0.018 U
168	153 + 168	C153	C153	C153	C153	C153	C153	C153	C153
169		0.004 U	0.0023 U	0.0024 U	0.0018 U	0.0017 U	0.003 U	0.0034 U	0.0024 U
170		0.152	0.026 U	0.142	0.02 U	0.099	0.027 U	0.106	0.025 U
171	171 + 173	0.049 C	0.012 C	0.051 C	0.008 C	0.037 C	0.008 C	0.04 C EMPC	0.009 C
172		0.031	0.007 EMPC	0.032	0.007 EMPC	0.02	0.007 EMPC	0.024	0.006
173	171 + 173	C171	C171	C171	C171	C171	C171	C171	C171
174		0.152	0.05 EMPC	0.141	0.033 U	0.111	0.043	0.108	0.036
175		0.009 EMPC	0.002 EMPC	0.009	0.0016 U	0.007 EMPC	0.0023 U	0.009	0.002 EMPC
176		0.022	0.006 EMPC	0.021	0.0011 U	0.015	0.006 EMPC	0.017 EMPC	0.005
177		0.13	0.031	0.124					

**Table H-12**  
**High-Volume Surface Water PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference - P59		Reference - P60		Reference - P61	
		08022959XA D 2/29/2008 (Filter)	08022959XA D 2/29/2008 (Column)	08030460XA D 3/4/2008 (Filter)	08030460XA D 3/4/2008 (Column)	08030661XA D 3/6/2008 (Filter)	08030661XA D 3/6/2008 (Column)
1		0.015 U	0.209	0.019 U	0.213	0.015 U	0.18
2		0.042 U	0.256	0.056	0.292	0.047 U	0.237
3		0.032 U	0.147	0.036 U	0.17	0.034 U	0.155
4		0.026 U	0.634	0.038 U	0.554	0.026 U	0.391
5		0.008 U	0.0051 U	0.0047 U	0.0046 U	0.0056 U	0.009 EMPC
6		0.011 U	0.144	0.019 U	0.129	0.012 U	0.103
7		0.011 U	0.032 U	0.014 U	0.027 U	0.0052 U	0.033 U
8		0.046 U	0.512	0.004 U	0.5	0.064 U	0.462
9		0.0071 U	0.041 EMPC	0.007 U	0.039	0.005 U	0.038
10		0.0067 U	0.026	0.004 U	0.017	0.0047 U	0.016
11		9.81	133	11.3	130	8.97	107
12	12 + 13	0.008 C U	0.0052 C U	0.0047 C U	0.0046 C U	0.0056 C U	0.0055 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0075 U	0.0049 U	0.0044 U	0.0044 U	0.0052 U	0.0052 U
15		0.059 U	0.839	0.081 U	0.543 EMPC	0.072 U	0.737
16		0.042 U	0.348	0.052 U	0.322	0.04 U	0.302
17		0.048 U	0.303	0.052 U	0.28	0.042 U	0.243
18	18 + 30	0.093 C U	0.763 C	0.116 C U	0.729 C	0.09 C U	0.657 C
19		0.015 U	0.139	0.017 U	0.115	0.015 U	0.09
20	20 + 28	0.195 C	0.749 C	0.237 C	0.736 C	0.293 C	0.728 C
21	21 + 33	0.063 C U	0.284 C	0.094 C U	0.289 C EMPC	0.129 C	0.286 C
22		0.072 EMPC	0.271	0.089	0.288	0.115	0.282
23		0.0043 U	0.017 U	0.006 U	0.0032 U	0.0019 U	0.002 U
24		0.003 EMPC	0.014 EMPC	0.003	0.013	0.002 EMPC	0.013
25		0.013 U	0.051	0.015	0.05	0.018	0.043 EMPC
26	26 + 29	0.028 C U	0.136 C	0.035 C U	0.131 C	0.042 C	0.121 C
27		0.009 U	0.062	0.01 U	0.056	0.01 U	0.052
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.144 U	0.622	0.179	0.612	0.22	0.588
32		0.023 U	0.16	0.029 U	0.149	0.025 U	0.136
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0043 U	0.026 U	0.005 U	0.005 U	0.002 U	0.006 U
35		0.03	0.118	0.039	0.125	0.041	0.103
36		0.005 EMPC	0.027 EMPC	0.007 EMPC	0.027	0.006 EMPC	0.022
37		0.067	0.147	0.08	0.145	0.105	0.146
38		0.0045 U	0.003 EMPC	0.003 EMPC	0.01	0.004	0.004
39		0.0044 U	0.006 EMPC	0.002 EMPC	0.01	0.002 EMPC	0.005 EMPC
40	40 + 41 + 71	0.089 C	0.221 C	0.101 C	0.224 C	0.121 C	0.229 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.067	0.129 EMPC	0.075	0.127	0.075	0.125
43		0.007 EMPC	0.02	0.013	0.023	0.009 EMPC	0.02
44	44 + 47 + 65	0.302 C	0.644 C	0.368 C	0.654 C	0.432 C	0.736 C
45	45 + 51	0.038 C U	0.103 C	0.045 C U	0.091 C	0.044 C U	0.105 C
46		0.01 EMPC	0.034 EMPC	0.01 EMPC	0.033	0.009 EMPC	0.031
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.039	0.0017 U	0.046	0.0014 U	0.045	0.0015 U
49	49 + 69	0.134 C	0.318 C	0.146 C	0.281 C	0.164 C	0.294 C
50	50 + 53	0.027 C	0.091 C	0.03 C	0.09 C	0.028 C	0.094 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		0.335	0.973	0.393	0.898	0.45	0.0014 U
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.001 U	0.018 U	0.005 U	0.002 U	0.003 U	0.001 U
55		0.0046 U	0.01 EMPC	0.0046 U	0.0061 U	0.0058 U	0.008
56		0.104	0.153	0.118	0.162	0.163	0.165
57		0.0044 U	0.0064 U	0.0044 U	0.0059 U	0.0056 U	0.0062 U
58		0.0045 U	0.0067 U	0.0045 U	0.0062 U	0.0056 U	0.0065 U
59	59 + 62 + 75	0.021 C	0.051 C	0.023 C	0.053 C	0.027 C	0.048 C
60		0.064 EMPC	0.088	0.067	0.087	0.088	0.089
61	61 + 70 + 74 + 76	0.495 C	0.739 C	0.571 C	0.746 C	0.816 C	0.783 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.01 EMPC	0.016 EMPC	0.011 EMPC	0.015	0.012	0.018
64		0.097	0.0013 U	0.114	0.209	0.136	0.213
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		0.261	0.299	0.279	0.324	0.363	0.318
67		0.008 EMPC	0.015 EMPC	0.008 EMPC	0.012 EMPC	0.008 EMPC	0.014
68		0.0043 U	0.0068 U	0.011 U	0.014 U	0.012 U	0.0066 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.0045 U	0.0063 U	0.0045 U	0.0058 U	0.0057 U	0.0061 U
73		0.0014 U	0.0013 U	0.0008 U	0.013	0.0008 U	0.012
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		0.039 U	0.043 U	0.057	0.041 U	0.071	0.08
78		0.0048 U	0.0071 U	0.0048 U	0.0066 U	0.006 U	0.0068 U
79		0.01 EMPC	0.009 EMPC	0.015	0.01 EMPC	0.015 EMPC	0.011
80		0.0042 U	0.0057 U	0.0042 U	0.0053 U	0.0053 U	0.0055 U
81		0.0047 U	0.007 U	0.0047 U	0.0062 U	0.0057 U	0.0066 U
82		0.058	0.05	0.068	0.055	0.084	0.057
83	83 + 99	0.388 C	0.296 C	0.448 C	0.302 C	0.479 C	0.324 C
84		0.109	0.153	0.124	0.142	0.144	0.165
85	85 + 116 + 117	0.12 C	0.088 C	0.136 C EMPC	0.089 C	0.164 C	0.104 C
86	86 + 87 + 97 + 108 + 119 + 125	0.442 C	0.387 C	0.512 C	0.411 C	0.616 C	0.468 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86

**Table H-12**  
**High-Volume Surface Water PCB Congener Analysis Results**  
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IUPAC #	COELUTING CONGENERS <sup>1</sup>	Reference - P59		Reference - P60		Reference - P61	
		08022959XA D 2/29/2008 (Filter)	08022959XA D 2/29/2008 (Column)	08030460XA D 3/4/2008 (Filter)	08030460XA D 3/4/2008 (Column)	08030661XA D 3/6/2008 (Filter)	08030661XA D 3/6/2008 (Column)
112		0.0023 U	0.0025 U	0.0014 U	0.0016 U	0.0011 U	0.0018 U
113	90 + 101 + 113	C90	C90	C90	C90	C90	C90
114		0.017 U	0.017 U	0.02 U	0.01 U	0.022 U	0.009 U
115	110 + 115	C110	C110	C110	C110	C110	C110
116	85 + 116 + 117	C85	C85	C85	C85	C85	C85
117	85 + 116 + 117	C85	C85	C85	C85	C85	C85
118		0.884	0.489	1.08	0.553	1.22	0.552
119	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
120		0.004	0.0023 U	0.004	0.002 EMPC	0.002	0.002 EMPC
121		0.0023 U	0.0025 U	0.0014 U	0.0016 U	0.0011 U	0.0018 U
122		0.0062 U	0.004 U	0.009	0.005 EMPC	0.008	0.0066 U
123		0.02 U	0.009 U	0.026 U	0.014 U	0.026 U	0.011 U
124	107 + 124	C107	C107	C107	C107	C107	C107
125	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
126		0.0063 U	0.0039 U	0.008 U	0.0041 U	0.008 U	0.007 U
127		0.0057 U	0.0039 U	0.0051 U	0.0041 U	0.0041 U	0.0064 U
128	128 + 166	0.137 C	0.044 C	0.146 C	0.045 C	0.156 C	0.049 C
129	129 + 138 + 160 + 163	1.04 C	0.351 C	1.28 C	0.381 C	1.11 C	0.388 C
130		0.053	0.02	0.057	0.02	0.058	0.021
131		0.01 EMPC	0.004 EMPC	0.012 EMPC	0.003 EMPC	0.01 EMPC	0.005
132		0.213	0.091	0.226	0.091	0.247	0.106
133		0.014	0.006 U	0.013	0.004 U	0.017	0.007 U
134	134 + 143	0.033 C	0.018 C EMPC	0.032 C	0.016 C	0.035 C	0.019 C
135	135 + 151 + 154	0.247 C	0.111 C	0.278 C	0.127 C	0.285 C	0.128 C
136		0.063	0.032	0.071	0.035	0.07	0.036
137		0.035 EMPC	0.016	0.047	0.01	0.048	0.017
138	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
139	139 + 140	0.014 C EMPC	0.006 C EMPC	0.016 C	0.005 C EMPC	0.016 C	0.007 C EMPC
140	139 + 140	C139	C139	C139	C139	C139	C139
141		0.089	0.037	0.116	0.037	0.122	0.042 EMPC
142		0.0027 U	0.0013 U	0.0042 U	0.0023 U	0.0034 U	0.0019 U
143	134 + 143	C134	C134	C134	C134	C134	C134
144		0.027	0.01 EMPC	0.027	0.015	0.033	0.015
145		0.0011 U	0.0011 U	0.0008 U	0.0006 U	0.0008 U	0.0009 U
146		0.156	0.059	0.183	0.063	0.167	0.063
147	147 + 149	0.644 C	0.288 C	0.778 C	0.298 C	0.725 C	0.307 C
148		0.0013 U	0.0014 U	0.0008 U	0.0008 U	0.002	0.0011 U
149	147 + 149	C147	C147	C147	C147	C147	C147
150		0.002 EMPC	0.0011 U	0.0008 U	0.002 EMPC	0.001 EMPC	0.0008 U
151	135 + 151 + 154	C135	C135	C135	C135	C135	C135
152		0.001 U	0.001 U	0.0008 U	0.001 EMPC	0.0008 U	0.0008 U
153	153 + 168	1.19 C	0.327 C	1.52 C	0.356 C	1.26 C	0.402 C
154	135 + 151 + 154	C135	C135	C135	C135	C135	C135
155		0.003 U	0.012 U	0.004 U	0.001 U	0.003 U	0.002 U
156	156 + 157	0.099 C	0.032 C U	0.115 C	0.03 C U	0.104 C	0.034 C U
157	156 + 157	C156	C156	C156	C156	C156	C156
158		0.073	0.027	0.083	0.025	0.084	0.031
159		0.008	0.002	0.005	0.0017 U	0.007 EMPC	0.002
160	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
161		0.0019 U	0.0009 U	0.003 U	0.0016 U	0.0024 U	0.0013 U
162		0.003 EMPC	0.002 EMPC	0.0031 U	0.0018 U	0.003 EMPC	0.0014 U
163	129 + 138 + 160 + 163	C129	C129	C129	C129	C129	C129
164		0.044	0.022	0.053	0.02	0.055	0.021
165		0.0022 U	0.0011 U	0.0033 U	0.0019 U	0.0027 U	0.0015 U
166	128 + 166	C128	C128	C128	C128	C128	C128
167		0.056	0.015 U	0.07	0.016 U	0.06	0.018 U
168	153 + 168	C153	C153	C153	C153	C153	C153
169		0.002 U	0.001 U	0.0032 U	0.0016 U	0.0024 U	0.0014 U
170		0.132	0.022 U	0.123	0.019 U	0.14	0.02 U
171	171 + 173	0.05 C	0.01 C	0.054 C	0.009 C	0.054 C	0.005 C EMPC
172		0.025	0.005 EMPC	0.027	0.006 EMPC	0.031	0.005
173	171 + 173	C171	C171	C171	C171	C171	C171
174		0.128	0.034	0.131	0.031	0.145	0.033
175		0.009 EMPC	0.0011 U	0.008 EMPC	0.001 EMPC	0.008	0.002
176		0.02	0.006 EMPC	0.021	0.0005 U	0.02	0.004 EMPC
177		0.104	0.024	0.112	0.021	0.11	0.024
178		0.044 EMPC	0.012	0.042	0.011	0.037	0.009
179		0.068	0.022 EMPC	0.077	0.018	0.07	0.018
180	180 + 193	0.369 C	0.087 C	0.392 C	0.07 C EMPC	0.389 C	0.078 C
181		0.002 EMPC	0.0011 U	0.002 EMPC	0.0008 U	0.002 EMPC	0.001 U
182		0.001 U	0.003 U	0.003 U	0.001 U	0.0008 U	0.001 U
183	183 + 185	0.131 C	0.03 C	0.142 C	0.026 C	0.122 C	0.031 C
184		0.001	0.001	0.002 EMPC	0.001 EMPC	0.002 EMPC	0.0007 U
185	183 + 185	C183	C183	C183	C183	C183	C183
186		0.001 U	0.0009 U	0.0008 U	0.0006 U	0.0008 U	0.0008 U
187		0.319	0.105	0.349	0.09	0.323	0.098
188		0.001 U	0.006 U	0.003 U	0.001 U	0.001 U	0.0007 U
189		0.006 U	0.002 U	0.004 U	0.002 U	0.005 U	0.0014 U
190		0.045	0.007 EMPC	0.048	0.008	0.05 EMPC	0.01
191		0.001 U	0.0009 U	0.007	0.001 EMPC	0.006	0.002 EMPC
192		0.0011 U	0.001 U	0.0008 U	0.0006 U	0.0008 U	0.0009 U
193	180 + 193	C180	C180	C180	C180	C180	C180
194		0.054	0.019 EMPC	0.052	0.01	0.069	0.016 EMPC
195		0.029	0.005	0.024	0.004 EMPC	0.033	0.005 EMPC
196		0.036	0.016	0.036	0.00		

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Site ID	P04	P05	P06	P07	P08	P09	P10	P11	P13	P14				
Sample ID	08022604SD	08031905SD	08031806SD	08021507SD	08021508SD	08021409SD	08021410SD	08021411SD	08031713SD	08031814SD				
Sample Date	2/26/2008	3/19/2008	3/18/2008	2/15/2008	2/15/2008	2/14/2008	2/14/2008	2/14/2008	2/14/2008	3/17/2008	3/18/2008			
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	10.0 U	10.0 U
Aroclor 1221	1.70 U	20.0 U	1.70 U	14.0 U	1.70 U	15.0 U	2.20 U	20.0 U	12.0 U	20.0 U	1.70 U	20.0 U	21.0 U	20.0 U
Aroclor 1232	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	7.90 U	10.0 U	7.40 U	9.80 U	1.70 U	9.90 U	8.20 U	10.0 U
Aroclor 1242	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	4.30 U	10.0 U	5.70 U	9.80 U	1.70 U	9.90 U	2.20 U	10.0 U
Aroclor 1248	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	3.50 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.90 U	10.0 U
Aroclor 1254	<b>27.0</b>	<b>27.0</b>	1.70 U	7.00 U	<b>4.60 J</b>	<b>4.60 J</b>	2.50 U	10.0 U	1.90 U	9.80 U	2.60 U	9.90 U	1.70 U	10.0 U
Aroclor 1260	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	10.0 U
Aroclor 1262	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	10.0 U
Aroclor 1268	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	10.0 U
Total PCBs as Aroclors <sup>1</sup>	<b>28.7 J</b>	<b>37.0 J</b>	3.40 U	14.0 U	<b>6.30 J</b>	<b>11.8 J</b>	6.80 U	20.0 U	7.60 U	19.6 U	4.30 U	19.8 U	3.90 U	20.0 U
													3.40 U	20.0 U
													3.40 U	17.0 U
													3.40 U	13.8 U

**Notes:**

<sup>1</sup> Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Sediment	Sediment	Sediment								
Site ID	P15	P16	P17	P18	P21	P65	P67	P88	P89		
Sample ID	08022115SD	08022116SD	08022117SD	08021118SD	08021221SD	08022965SD	08030367SD	08031788SD	08031789SD		
Sample Date	2/21/2008	2/21/2008	2/21/2008	2/11/2008	2/12/2008	2/29/2008	3/3/2008	3/17/2008	3/17/2008		
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL
Aroclor 1016	1.70 U	9.90 U	1.70 U	10.0 U	9.90 U	9.90 U	1.70 U	10.0 U	1.70 U	7.30 U	1.70 U
Aroclor 1221	1.70 U	20.0 U	1.70 U	20.0 U	29.0 U	29.0 U	13.0 U	20.0 U	16.0 U	20.0 U	1.70 U
Aroclor 1232	1.70 U	9.90 U	1.70 U	10.0 U	18.0 U	18.0 U	7.50 U	10.0 U	14.0 U	14.0 U	1.70 U
Aroclor 1242	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	2.90 U	10.0 U	5.70 U	10.0 U	1.70 U
Aroclor 1248	1.70 U	9.90 U	1.70 U	10.0 U	1.90 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U
Aroclor 1254	1.70 U	9.90 U	1.70 U	10.0 U	2.20 U	9.90 U	1.70 U	10.0 U	2.40 U	10.0 U	1.70 U
Aroclor 1260	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	4.70 U	10.0 U	1.70 U
Aroclor 1262	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U
Aroclor 1268	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U
Total PCBs as Aroclors <sup>1</sup>	3.40 U	19.8 U	3.40 U	20.0 U	3.90 U	19.80 U	4.60 U	20.0 U	8.10 U	20.0 U	3.40 U

**Notes:**

<sup>1</sup> Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 3 of 10)**

Media	Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam			
Site ID	P04		P05		P06		P07		P08		P09		P10		P11		P13		P14	
Sample ID	08022604TC		08031905TC		08031806TC		08021507TC		08021508TC		08021409TC		08021410TC		08021411TC		08031713TC		08031814TC	
Sample Date	2/26/2008		3/19/2008		3/18/2008		2/15/2008		2/15/2008		2/14/2008		2/14/2008		2/14/2008		3/17/2008		3/18/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	18.0 U	18.0 U	2.40 U	9.90 U	2.40 U	10.0 U	19.0 U	19.0 U	23.0 U	23.0 U	23.0 U	23.0 U	23.0 U	23.0 U	21.0 U	21.0 U	2.40 U	9.90 U	2.40 U	9.90 U
Aroclor 1221	20.0 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	40.0 U	40.0 U	2.30 U	9.90 U	2.30 U	10.0 U	27.0 U	27.0 U	25.0 U	25.0 U	30.0 U	30.0 U	34.0 U	34.0 U	36.0 U	36.0 U	2.30 U	9.90 U	2.30 U	9.90 U
Aroclor 1242	48.0 U	48.0 U	2.20 U	9.90 U	2.20 U	10.0 U	35.0 U	35.0 U	29.0 U	29.0 U	30.0 U	30.0 U	19.0 U	19.0 U	19.0 U	19.0 U	2.20 U	9.90 U	2.20 U	9.90 U
Aroclor 1248	0.510 U	9.80 U	0.510 U	9.90 U	0.510 U	10.0 U	26.0 U	26.0 U	13.0 U	13.0 U	6.00 U	9.60 U	12.0 U	12.0 U	9.90 U	10.0 U	0.510 U	9.90 U	0.510 U	9.90 U
Aroclor 1254	<b>120 J</b>	<b>120 J</b>	<b>23.0 J</b>	<b>23.0 J</b>	<b>32.0 J</b>	<b>32.0 J</b>	74.0 U	74.0 U	55.0 U	55.0 U	49.0 U	49.0 U	36.0 U	36.0 U	32.0 U	<b>22.0</b>	<b>22.0</b>	<b>22.0</b>	<b>22.0</b>	
Aroclor 1260	1.90 U	9.80 U	1.90 U	9.90 U	1.90 U	10.0 U	11.0 U	11.0 U	9.40 U	9.80 U	8.50 U	9.60 U	6.90 U	9.90 U	6.40 U	10.0 U	1.90 U	9.90 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.60 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	9.80 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.60 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U
Total PCBs as Aroclors <sup>1</sup>	<b>120 J</b>	<b>120 J</b>	<b>23.0 J</b>	<b>23.0 J</b>	<b>32.0 J</b>	<b>32.0 J</b>	74.0 U	74.0 U	55.0 U	55.0 U	49.0 U	49.0 U	36.0 U	36.0 U	32.0 U	<b>22.0</b>	<b>22.0</b>	<b>22.0</b>	<b>22.0</b>	

**Notes:**

<sup>1</sup> Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Clam		Clam		Clam													
Site ID	P15	P16	P17	P18	P21	P65	P67	P88	P89									
Sample ID	08022115TC	08022116TC	08022117TC	08021118TC	08021221TC	08022965TC	08030367TC	08031788TC	08031789TC									
Sample Date	2/21/2008	2/21/2008	2/21/2008	2/12/2008	2/12/2008	2/29/2008	3/3/2008	3/17/2008	3/17/2008									
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL										
Aroclor 1016	19.0 U	19.0 U	17.0 U	15.0 U	15.0 U	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.90 U					
Aroclor 1221	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U							
Aroclor 1232	35.0 U	35.0 U	30.0 U	30.0 U	31.0 U	31.0 U	23.0 U	23.0 U	19.0 U	19.0 U	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.90 U
Aroclor 1242	17.0 U	17.0 U	15.0 U	15.0 U	15.0 U	15.0 U	22.0 U	22.0 U	10.0 U	10.0 U	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U
Aroclor 1248	4.60 U	9.90 U	4.50 U	9.80 U	9.20 U	10.0 U	9.90 U	9.90 U	4.60 U	9.80 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.90 U
Aroclor 1254	32.0 U	32.0 U	30.0 U	30.0 U	28.0 U	28.0 U	28.0 U	30.0 U	30.0 U	<b>21.0</b>	<b>21.0</b>	<b>21.0</b>	<b>21.0</b>	<b>23.0</b>	<b>23.0</b>	<b>21.0</b>	<b>21.0</b>	
Aroclor 1260	6.70 U	9.90 U	6.80 U	9.80 U	5.90 U	10.0 U	5.90 U	9.90 U	6.20 U	9.80 U	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.90 U
Total PCBs as Aroclors <sup>1</sup>	32.0 U	32.0 U	30.0 U	30.0 U	28.0 U	28.0 U	28.0 U	30.0 U	30.0 U	<b>21.0</b>	<b>21.0</b>	<b>21.0</b>	<b>21.0</b>	<b>23.0</b>	<b>23.0</b>	<b>21.0</b>	<b>21.0</b>	

**Notes:**

<sup>1</sup> Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish											
Site ID	P01-CF	P02-CF	P03-CF	P04-CF	P05-CF	P06-CF	P07-CF	P08-CF	P13-CF	P14-CF								
Sample ID	08021901CF	08021902CF	08022003CF	08021904CF	08021505CF	08021406CF	08021407CF	08021408CF	08021413CF	08022014CF								
Sample Date	2/19/2008	2/19/2008	2/20/2008	2/19/2008	2/15/2008	2/14/2008	2/14/2008	2/14/2008	2/14/2008	2/14/2008								
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL										
Aroclor 1016	2.40 U	9.90 U	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.90 U	2.40 U	9.80 U	2.40 U	9.60 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U								
Aroclor 1232	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.90 U	2.30 U	9.60 U
Aroclor 1242	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.60 U
Aroclor 1248	0.510 U	9.90 U	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.90 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.90 U	0.510 U	9.60 U
Aroclor 1254	1.80 U	9.90 U	1.80 U	10.0 U	1.80 U	9.90 U	1.80 U	9.90 U	1.80 U	9.80 U	1.90 U	19.0 U	1.90 U	9.90 U	1.80 U	9.90 U	1.80 U	9.60 U
Aroclor 1260	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	9.90 U	8.60 U	9.90 U	7.10 U	9.80 U	17.0 U	17.0 U	4.00 U	9.90 U	1.90 U	9.90 U	1.90 U	9.60 U
Aroclor 1262	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.90 U	9.80 U	9.80 U	10.0 U	10.0 U	2.60 U	9.90 U	2.50 U	9.90 U	2.50 U	9.60 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.60 U
Total PCBs as Aroclors <sup>1</sup>	2.60 U	20.00 U	2.60 U	20.0 U	2.60 U	20.0 U	8.60 U	20.0 U	9.80 U	20.0 U	19.0 U	20.0 U	4.00 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U

**Notes:**

<sup>1</sup>The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Forebay crayfish samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Crayfish	Crayfish	Crayfish	Sculpin	Sculpin	Sculpin						
Site ID	P15-CF	P16-CF	P17-CF	P18-CF	P19-CF	P20-CF	P21-CF	SF-01	SF-02	SF-03		
Sample ID	08021915CF	08022216CF	08021917CF	08021918CF	08021919CF	08021920CF	08021921CF	F-1	F-2	F-3		
Sample Date	2/19/2008	2/22/2008	2/19/2008	2/19/2008	2/19/2008	2/19/2008	2/19/2008	9/17/2008	9/17/2008	9/17/2008		
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.60 U	2.40 U	9.90 U	2.40 U	10.0 U	2.40 U	9.60 U	2.40 U	9.80 U	2.40 U	9.80 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U
Aroclor 1232	2.30 U	9.60 U	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.60 U	2.30 U	9.80 U	2.30 U	9.20 U
Aroclor 1242	2.20 U	9.60 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.60 U	2.20 U	9.80 U	2.20 U	9.20 U
Aroclor 1248	0.510 U	9.60 U	0.510 U	9.90 U	0.510 U	10.0 U	0.510 U	9.60 U	0.510 U	9.80 U	0.510 U	9.20 U
Aroclor 1254	1.80 U	9.60 U	1.80 U	9.90 U	1.80 U	10.0 U	1.80 U	9.60 U	1.80 U	9.80 U	1.80 U	9.80 U
Aroclor 1260	1.90 U	9.60 U	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	9.60 U	1.90 U	9.80 U	1.90 U	9.20 U
Aroclor 1262	2.50 U	9.60 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.60 U	2.50 U	9.80 U	2.50 U	9.20 U
Aroclor 1268	2.00 U	9.60 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.60 U	2.00 U	9.80 U	2.00 U	9.20 U
Total PCBs as Aroclors <sup>1</sup>	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	13.0 U	13.0 U

**Notes:**

<sup>1</sup>The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Forebay crayfish samples.

Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin	Sculpin
Site ID	SF-04	SF-05	SF-06	SF-07	SF-08	SF-09	SF-10	SF-11	SF-12	SF-13				
Sample ID	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13				
Sample Date	9/17/2008	10/22/2008	9/19/2008	10/21/2008	9/17/2008	9/19/2008	10/21/2008	9/17/2008	2/22/2008	2/22/2008				
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.90 U	2.40 U	9.20 U	2.40 U	9.50 U	2.40 U	9.40 U	2.40 U	9.20 U	2.40 U	9.40 U	2.40 U	9.80 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	9.90 U	2.30 U	9.20 U	2.30 U	9.50 U	2.30 U	9.40 U	2.30 U	9.20 U	2.30 U	9.40 U	2.30 U	9.80 U
Aroclor 1242	2.20 U	9.90 U	2.20 U	9.20 U	2.20 U	9.50 U	2.20 U	9.40 U	2.20 U	9.20 U	2.20 U	9.40 U	2.20 U	9.80 U
Aroclor 1248	0.510 U	9.90 U	0.510 U	9.20 U	0.510 U	9.50 U	0.510 U	9.40 U	0.510 U	9.20 U	0.510 U	9.40 U	0.510 U	9.80 U
Aroclor 1254	<b>470</b>	<b>470</b>	<b>130</b>	<b>130</b>	130 U	130 U	28.0 U	28.0 U	20.0 U	20.0 U	27.0 U	27.0 U	19.0 U	19.0 U
Aroclor 1260	1.90 U	9.90 U	1.90 U	9.20 U	82.0 U	82.0 U	1.90 U	9.40 U	1.90 U	9.20 U	13.0 U	13.0 U	1.90 U	9.80 U
Aroclor 1262	2.50 U	9.90 U	2.50 U	9.20 U	2.50 U	9.50 U	2.50 U	9.40 U	2.50 U	9.20 U	2.50 U	9.40 U	2.50 U	9.80 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	9.20 U	2.00 U	9.50 U	2.00 U	9.40 U	2.00 U	9.20 U	2.00 U	9.40 U	2.00 U	9.80 U
Total PCBs as Aroclors <sup>1</sup>	<b>470</b>	<b>470</b>	<b>130</b>	<b>130</b>	130 U	130 U	28.0 U	28.0 U	20.0 U	20.0 U	27.0 U	27.0 U	19.0 U	19.0 U

**Notes:**

<sup>1</sup> Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Sculpin		Sculpin		Sculpin		Sculpin		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	SF-14	SF-15	SF-16	SF-17	01	02	03	04	05	060605100SB	060605101SB	060605200SB	060605201SB	060605202SB		
Sample ID	F-14	F-15	F-16	F-17												
Sample Date	10/22/2008	10/21/2008	10/21/2008	10/21/2008						6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006		
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.80 U	2.40 U	9.30 U	2.40 UJ	10.0 UJ	24.0 UJ	100 UJ	2.40 UJ	10.0 UJ	2.40 UJ	10.0 UJ
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 UJ	20.0 UJ	26.0 UJ	200 UJ	2.60 UJ	20.0 UJ	2.60 UJ	20.0 UJ
Aroclor 1232	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	9.30 U	2.30 UJ	10.0 UJ	23.0 UJ	100 UJ	2.30 UJ	10.0 UJ	2.30 UJ	10.0 UJ
Aroclor 1242	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.30 U	2.20 UJ	10.0 UJ	22.0 UJ	100 UJ	2.20 UJ	10.0 UJ	2.20 UJ	10.0 UJ
Aroclor 1248	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.80 U	0.510 U	9.30 U	0.510 UJ	10.0 UJ	5.10 UJ	100 UJ	68.0 UJ	68.0 UJ	0.510 UJ	10.0 UJ
Aroclor 1254	29.0 U	29.0 U	27.0 U	27.0 U	37.0 U	37.0 U	32.0 U	32.0 U	28.0 UJ	28.0 UJ	1300 J	1300 J	240 UJ	240 UJ	67.0 UJ	67.0 UJ
Aroclor 1260	1.90 U	10.0 U	1.90 U	9.90 U	1.90 U	9.80 U	1.90 U	9.30 U	24.0 UJ	24.0 UJ	19.0 UJ	100 UJ	150 UJ	150 UJ	48.0 UJ	48.0 UJ
Aroclor 1262	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.30 U	2.50 UJ	10.0 UJ	25.0 UJ	100 UJ	98.0 UJ	98.0 UJ	21.0 UJ	21.0 UJ
Aroclor 1268	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.30 U	2.00 UJ	10.0 UJ	20.0 UJ	100 UJ	2.00 UJ	10.0 UJ	2.00 UJ	10.0 UJ
Total PCBs as Aroclors <sup>1</sup>	29.0 U	29.0 U	27.0 U	27.0 U	37.0 U	37.0 U	32.0 U	32.0 U	30.2 UJ	38.0 UJ	1322 J	1400 J	242 UJ	250 UJ	69.2 UJ	77.0 UJ
															<b>53.2 J</b>	<b>61.0 J</b>

**Notes:**

<sup>1</sup> Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.

Only Aroclors 1242 and 1254 were included in summing smallmouth bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Smallmouth Bass								
Site ID	06	07	08	09	10	11	12	13	14
Sample ID	060605203SB	060605204SB	060605205SB	060605207SB	060605208SB	060605209SB	060606102SB	060606103SB	060606104SB
Sample Date	6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/5/2006	6/6/2006	6/6/2006	6/6/2006
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL
Aroclor 1016	2.50 UJ	11.0 UJ	2.40 UJ	10.0 UJ	24.0 UJ	100 UJ	4.70 UJ	9.90 UJ	2.40 UJ
Aroclor 1221	2.70 UJ	21.0 UJ	2.60 UJ	20.0 UJ	26.0 UJ	200 UJ	25.0 UJ	25.0 UJ	2.60 UJ
Aroclor 1232	2.40 UJ	11.0 UJ	2.30 UJ	10.0 UJ	23.0 UJ	100 UJ	14.0 UJ	14.0 UJ	2.30 UJ
Aroclor 1242	2.30 UJ	11.0 UJ	2.20 UJ	10.0 UJ	22.0 UJ	100 UJ	4.40 UJ	9.90 UJ	2.20 UJ
Aroclor 1248	12.0 UJ	12.0 UJ	11.0 UJ	11.0 UJ	5.10 UJ	100 UJ	9.10 UJ	9.90 UJ	12.0 UJ
Aroclor 1254	95.0 UJ	95.0 UJ	38.0 UJ	38.0 UJ	<b>1300 J</b>	<b>1300 J</b>	25.0 UJ	25.0 UJ	96.0 UJ
Aroclor 1260	73.0 UJ	73.0 UJ	37.0 UJ	37.0 UJ	19.0 UJ	100 UJ	67.0 UJ	67.0 UJ	78.0 UJ
Aroclor 1262	21.0 UJ	21.0 UJ	12.0 UJ	12.0 UJ	25.0 UJ	100 UJ	24.0 UJ	24.0 UJ	50.0 UJ
Aroclor 1268	2.10 UJ	11.0 UJ	2.00 UJ	10.0 UJ	20.0 UJ	100 UJ	6.40 UJ	9.90 UJ	16.0 UJ
Total PCBs as Aroclors <sup>1</sup>	97.3 UJ	106 UJ	40.2 UJ	48.0 UJ	<b>1322 J</b>	<b>1400 J</b>	29.4 UJ	34.9 UJ	98.2 UJ
							106 UJ	<b>14220 J</b>	<b>15000 J</b>
								87.2 UJ	87.2 UJ
								95.0 UJ	95.0 UJ
								424 UJ	424 UJ
								429.9 UJ	429.9 UJ
								21.0 UJ	21.0 UJ

**Notes:**

<sup>1</sup> Only Aroclors 1242 and 1254 were included in summing smallmouth bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-13**  
**Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Smallmouth Bass	Large Scale Sucker						
Site ID	15	16	17	18	19	SUCKER		
Sample ID	060606210SB	060815402SB	060815403SB	060815405SB	060815406SB	070505LS		
Sample Date	6/6/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	8/15/2006	5/5/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	10.0 UJ	10.0 UJ	2.40 UJ	10.0 UJ	120 UJ	500 UJ	24.0 UJ	99.0 UJ
Aroclor 1221	20.0 UJ	20.0 UJ	2.60 UJ	20.0 UJ	130 UJ	990 UJ	26.0 UJ	200 UJ
Aroclor 1232	10.0 UJ	10.0 UJ	2.30 UJ	10.0 UJ	120 UJ	500 UJ	23.0 UJ	99.0 UJ
Aroclor 1242	8.50 UJ	10.0 UJ	<b>260 J</b>	<b>260 J</b>	110 UJ	500 UJ	22.0 UJ	99.0 UJ
Aroclor 1248	10.0 UJ	10.0 UJ	0.510 UJ	10.0 UJ	26.0 UJ	500 UJ	5.10 UJ	99.0 UJ
Aroclor 1254	16.0 UJ	16.0 UJ	<b>330 J</b>	<b>330 J</b>	<b>18000 J</b>	<b>18000 J</b>	<b>1400 J</b>	<b>1400 J</b>
Aroclor 1260	31.0 UJ	31.0 UJ	1.90 UJ	10.0 UJ	95.0 UJ	500 UJ	19.0 UJ	99.0 UJ
Aroclor 1262	10.0 UJ	10.0 UJ	2.50 UJ	10.0 UJ	130 UJ	500 UJ	25.0 UJ	99.0 UJ
Aroclor 1268	2.50 UJ	10.0 UJ	2.00 UJ	10.0 UJ	100 UJ	500 UJ	20.0 UJ	99.0 UJ
Total PCBs as Aroclors <sup>1</sup>	24.5 UJ	26.0 UJ	<b>590 J</b>	<b>590 J</b>	<b>18110 J</b>	<b>18500 J</b>	<b>1422 J</b>	<b>1499 J</b>
							17.7 UJ	22.9 UJ
							<b>160</b>	<b>160</b>

**Notes:**

<sup>1</sup> Only Aroclors 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.

Only Aroclor 1254 was included in summing sucker Total PCBs as Aroclors because all other aroclors were undected in Forebay large scale sucker samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-14**  
**Forebay - Targeted Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 1 of 1)**

Area	Forebay - Eagle Creek		Forebay - Eagle Creek		Forebay - Goose Island		Forebay - Goose Island		Forebay - Goose Island		Forebay - Goose Island	
Media	Sediment		Sediment		Sediment		Sediment		Clam		Crayfish	
Site ID	P43		P44		P110		P111		P110		P110	
Sample ID	08032043SD		08032044SD		090427110SD		090429111SD		090429110TC		090429110CF	
Sample Date	3/20/2008		3/20/2008		4/27/2009		4/29/2009		4/29/2009		4/29/2009	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	6.10 UJ	9.70 UJ	2.40 U	9.50 U
Aroclor 1221	1.70 U	15.0 U	1.70 U	15.0 U	2.50 U	24.0 U	2.70 U	26.0 U	5.90 UJ	9.70 UJ	2.60 U	9.50 U
Aroclor 1232	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	9.70 UJ	9.70 UJ	2.30 U	9.50 U
Aroclor 1242	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	6.60 UJ	9.70 UJ	2.20 U	9.50 U
Aroclor 1248	<b>76.0</b>	<b>76.0</b>	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	5.20 UJ	9.70 UJ	0.510 U	9.50 U
Aroclor 1254	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	<b>9.90 J</b>	<b>9.90 J</b>	14.0 UJ	14.0 UJ	1.80 U	9.50 U
Aroclor 1260	1.70 U	7.40 U	1.70 U	7.30 U	2.50 UJ	12.0 UJ	2.70 UJ	13.0 UJ	6.30 UJ	9.70 UJ	1.90 U	9.50 U
Aroclor 1262	1.70 U	7.40 U	1.70 U	7.30 U	-	-	-	-	3.20 UJ	9.70 UJ	2.50 U	9.50 U
Aroclor 1268	1.70 U	7.40 U	1.70 U	7.30 U	-	-	-	-	2.00 UJ	9.70 UJ	2.00 U	9.50 U
Total PCBs as Aroclors <sup>1</sup>	<b>77.7 J</b>	<b>83.4 J</b>	3.40 U	14.6 U	5.00 U	24.0 U	<b>12.6 J</b>	<b>22.9 J</b>	14.0 UJ	14.0 UJ	2.60 U	9.50 U

**Notes:**

<sup>1</sup> Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.

Only Aroclor 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Forebay crayfish samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Sediment is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

Tissue is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 1 of 10)**

Media	Sediment																	
Site ID	<b>P22</b>		<b>P24</b>		<b>P26</b>		<b>P27</b>		<b>P28</b>		<b>P29</b>		<b>P34</b>		<b>P35</b>		<b>P36</b>	
Sample ID	<b>08030522SD</b>		<b>08030524SD</b>		<b>08030426SD</b>		<b>08030427SD</b>		<b>08030428SD</b>		<b>08022229SD</b>		<b>08022534SD</b>		<b>08022535SD</b>		<b>08022536SD</b>	
Sample Date	3/5/2008		3/5/2008		3/4/2008		3/4/2008		3/4/2008		2/22/2008		2/25/2008		2/25/2008		2/25/2008	
Censoring Level for Undetected Results	MDL	MRL																
Aroclor 1016	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	10.0 U	10.0 U	1.70 U	10.0 U
Aroclor 1221	1.70 U	20.0 U	1.80 U	21.0 U	1.70 U	20.0 U	1.70 U	20.0 U	6.00 U	20.0 U	1.70 U	20.0 U						
Aroclor 1232	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	10.0 U	10.0 U	1.70 U	10.0 U
Aroclor 1242	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	16.0 U	16.0 U	1.70 U	10.0 U
Aroclor 1248	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U						
Aroclor 1254	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U						
Aroclor 1260	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U						
Aroclor 1262	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U						
Aroclor 1268	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U						
Total PCBs as Aroclors <sup>1</sup>	1.70 U	20.0 U	1.80 U	21.0 U	1.70 U	20.0 U	1.70 U	20.0 U	16.0 U	20.0 U	1.70 U	20.0 U						

**Notes:**

<sup>1</sup> The sediment Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sediment samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 2 of 10)**

Media	Sediment																	
Site ID	<b>P37</b>		<b>P38</b>		<b>P39</b>		<b>P40</b>		<b>P41</b>		<b>P42</b>		<b>P85</b>		<b>P86</b>		<b>P87</b>	
Sample ID	<b>08022637SD</b>		<b>08022738SD</b>		<b>08022739SD</b>		<b>08022740SD</b>		<b>08022741SD</b>		<b>08022742SD</b>		<b>08030685SD</b>		<b>08030686SD</b>		<b>08030687SD</b>	
Sample Date	2/26/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		3/6/2008		3/6/2008		3/6/2008	
Censoring Level for Undetected Results	MDL	MRL																
Aroclor 1016	1.70 U	10.0 U	13.0 U	13.0 U	1.70 U	9.90 U	3.40 U	10.0 U	1.70 U	10.0 U								
Aroclor 1221	9.80 U	20.0 U	11.0 U	20.0 U	1.70 U	20.0 U	6.20 U	20.0 U	1.70 U	20.0 U								
Aroclor 1232	11.0 U	11.0 U	12.0 U	12.0 U	1.70 U	9.90 U	10.0 U	10.0 U	1.70 U	10.0 U								
Aroclor 1242	14.0 U	14.0 U	1.70 U	10.0 U	1.70 U	9.90 U	13.0 U	13.0 U	1.70 U	10.0 U								
Aroclor 1248	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U										
Aroclor 1254	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U										
Aroclor 1260	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U										
Aroclor 1262	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U										
Aroclor 1268	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U										
Total PCBs as Aroclors <sup>1</sup>	14.0 U	20.0 U	13.0 U	20.0 U	1.70 U	20.0 U	13.0 U	20.0 U	1.70 U	20.0 U								

**Notes:**

<sup>1</sup> The sediment Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sediment samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 3 of 10)**

Media	Clam																	
Site ID	P22		P24		P26		P27		P28		P29		P34		P35		P36	
Sample ID	08030522TC		08030524TC		08030426TC		08030427TC		08030428TC		08022229TC		08022534TC		08022535TC		08022536TC	
Sample Date	3/5/2008		3/5/2008		3/4/2008		3/4/2008		3/4/2008		2/22/2008		2/25/2008		2/25/2008		2/25/2008	
Censoring Level for Undetected Results	MDL	MRL																
Aroclor 1016	13.0 U	13.0 U	11.0 U	11.0 U	11.0 U	11.0 U	12.0 U	12.0 U	8.90 U	9.80 U	13.0 U	13.0 U	12.0 U	12.0 U	9.50 U	9.90 U	8.40 U	9.90 U
Aroclor 1221	14.0 U	20.0 U	14.0 U	20.0 U	14.0 U	20.0 U	8.20 U	20.0 U	9.60 U	20.0 U	16.0 U	20.0 U	15.0 U	20.0 U	8.80 U	20.0 U	12.0 U	20.0 U
Aroclor 1232	19.0 U	19.0 U	18.0 U	18.0 U	22.0 U	22.0 U	27.0 U	27.0 U	18.0 U	18.0 U	26.0 U	26.0 U	23.0 U	23.0 U	28.0 U	28.0 U	19.0 U	19.0 U
Aroclor 1242	13.0 U	13.0 U	7.90 U	9.70 U	11.0 U	11.0 U	12.0 U	12.0 U	12.0 U	12.0 U	13.0 U	13.0 U	13.0 U	13.0 U	14.0 U	14.0 U	13.0 U	13.0 U
Aroclor 1248	5.70 U	10.0 U	5.70 U	9.70 U	7.60 U	9.90 U	8.30 U	9.90 U	5.70 U	9.80 U	7.70 U	9.80 U	6.40 U	9.90 U	9.10 U	9.90 U	9.90 U	9.90 U
Aroclor 1254	<b>36.0</b>	<b>36.0</b>	<b>30.0</b>	<b>30.0</b>	<b>35.0</b>	<b>35.0</b>	<b>37.0</b>	<b>37.0</b>	<b>33.0</b>	<b>33.0</b>	<b>32.0</b>	<b>32.0</b>	<b>32.0</b>	<b>32.0</b>	<b>37.0</b>	<b>37.0</b>	<b>38.0</b>	<b>38.0</b>
Aroclor 1260	6.40 U	10.0 U	6.20 U	9.70 U	6.50 U	9.90 U	6.80 U	9.90 U	6.60 U	9.80 U	5.70 U	9.80 U	5.90 U	9.90 U	7.70 U	9.90 U	7.60 U	9.90 U
Aroclor 1262	9.30 U	10.0 U	7.20 U	9.70 U	7.70 U	9.90 U	7.80 U	9.90 U	7.50 U	9.80 U	8.00 U	9.80 U	8.10 U	9.90 U	8.10 U	9.90 U	7.70 U	9.90 U
Aroclor 1268	2.00 U	10.0 U	2.00 U	9.70 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.80 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.90 U
Total PCBs as Aroclors <sup>1</sup>	<b>36.0</b>	<b>36.0</b>	<b>30.0</b>	<b>30.0</b>	<b>35.0</b>	<b>35.0</b>	<b>37.0</b>	<b>37.0</b>	<b>33.0</b>	<b>33.0</b>	<b>32.0</b>	<b>32.0</b>	<b>32.0</b>	<b>32.0</b>	<b>37.0</b>	<b>37.0</b>	<b>38.0</b>	<b>38.0</b>

**Notes:**

<sup>1</sup> Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Clam																	
Site ID	P37		P38		P39		P40		P41		P42		P85		P86		P87	
Sample ID	08022637TC		08022738TC		08022739TC		08022740TC		08022741TC		08022742TC		08030685TC		08030686TC		08030687TC	
Sample Date	2/26/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		3/6/2008		3/6/2008		3/6/2008	
Censoring Level for Undetected Results	MDL	MRL																
Aroclor 1016	9.70 U	9.90 U	15.0 U	15.0 U	15.0 U	15.0 U	12.0 U	12.0 U	14.0 U	14.0 U	12.0 U	12.0 U	14.0 U	14.0 U	12.0 U	12.0 U	9.50 U	10.0 U
Aroclor 1221	16.0 U	20.0 U	6.30 U	20.0 U	7.40 U	20.0 U	12.0 U	20.0 U	7.50 U	20.0 U	16.0 U	20.0 U	12.0 U	20.0 U	9.10 U	20.0 U	9.20 U	20.0 U
Aroclor 1232	29.0 U	29.0 U	35.0 U	35.0 U	33.0 U	33.0 U	22.0 U	22.0 U	31.0 U	31.0 U	20.0 U	20.0 U	28.0 U	28.0 U	24.0 U	24.0 U	26.0 U	26.0 U
Aroclor 1242	9.30 U	9.90 U	12.0 U	12.0 U	11.0 U	11.0 U	9.70 U	10.0 U	14.0 U	14.0 U	9.40 U	10.0 U	9.90 U	9.90 U	9.20 U	9.90 U	9.50 U	10.0 U
Aroclor 1248	9.90 U	9.90 U	9.40 U	9.90 U	9.60 U	9.60 U	8.70 U	10.0 U	8.90 U	9.80 U	8.20 U	10.0 U	9.90 U	9.90 U	7.10 U	9.90 U	5.50 U	10.0 U
Aroclor 1254	<b>35.0</b>	<b>35.0</b>	<b>37.0</b>	<b>37.0</b>	<b>38.0</b>	<b>38.0</b>	<b>37.0</b>	<b>37.0</b>	<b>39.0</b>	<b>39.0</b>	<b>35.0</b>	<b>35.0</b>	<b>34.0</b>	<b>34.0</b>	<b>31.0</b>	<b>31.0</b>	<b>33.0</b>	<b>33.0</b>
Aroclor 1260	7.30 U	9.90 U	8.10 U	9.90 U	7.50 U	9.60 U	6.90 U	10.0 U	7.70 U	9.80 U	7.50 U	10.0 U	6.70 U	9.90 U	6.20 U	9.90 U	6.60 U	10.0 U
Aroclor 1262	3.70 U	9.90 U	7.60 U	9.90 U	9.10 U	9.60 U	9.90 U	10.0 U	7.80 U	9.80 U	9.10 U	10.0 U	8.20 U	9.90 U	7.90 U	9.90 U	8.40 U	10.0 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.60 U	2.00 U	10.0 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	10.0 U
Total PCBs as Aroclors <sup>1</sup>	<b>35.0</b>	<b>35.0</b>	<b>37.0</b>	<b>37.0</b>	<b>38.0</b>	<b>38.0</b>	<b>37.0</b>	<b>37.0</b>	<b>39.0</b>	<b>39.0</b>	<b>35.0</b>	<b>35.0</b>	<b>34.0</b>	<b>34.0</b>	<b>31.0</b>	<b>31.0</b>	<b>33.0</b>	<b>33.0</b>

**Notes:**

<sup>1</sup> Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 1 of 10)**

Media	Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish	
Site ID	<b>P100-CF</b>		<b>P105-CF</b>		<b>P22-CF</b>		<b>P33-CF</b>		<b>P38-CF</b>		<b>P42-CF</b>		<b>P72-CF</b>		<b>P73-CF</b>		<b>P74-CF</b>		<b>P75-CF</b>	
Sample ID	<b>080312100CF</b>		<b>080314105CF</b>		<b>08022622CF</b>		<b>08022233CF</b>		<b>08021838CF</b>		<b>08022842CF</b>		<b>08030372CF</b>		<b>08030373CF</b>		<b>08030374CF</b>		<b>08030375CF</b>	
Sample Date	3/12/2008		3/14/2008		2/26/2008		2/26/2008		2/18/2008		2/28/2008		3/3/2008		3/3/2008		3/3/2008		3/3/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.90 U	3.00 U	13.0 U	2.40 U	9.40 U	2.40 U	9.90 U	4.60 U	20.0 U	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.50 U	2.40 U	9.90 U	2.40 U	9.80 U
Aroclor 1221	2.60 U	20.0 U	3.30 U	25.0 U	2.60 U	19.0 U	2.60 U	20.0 U	5.00 U	39.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	9.90 U	2.90 U	13.0 U	2.30 U	9.40 U	2.30 U	9.90 U	4.40 U	20.0 U	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.50 U	2.30 U	9.90 U	2.30 U	9.80 U
Aroclor 1242	2.20 U	9.90 U	2.80 U	13.0 U	2.20 U	9.40 U	2.20 U	9.90 U	4.30 U	20.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.50 U	2.20 U	9.90 U	2.20 U	9.80 U
Aroclor 1248	0.510 U	9.90 U	0.64 U	13.0 U	0.510 U	9.40 U	0.510 U	9.90 U	0.98 U	20.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.50 U	0.510 U	9.90 U	0.510 U	9.80 U
Aroclor 1254	1.80 U	9.90 U	2.30 U	13.0 U	1.80 U	9.40 U	1.80 U	9.90 U	3.50 U	20.0 U	1.80 U	10.0 U	1.80 U	10.0 U	1.80 U	9.50 U	1.80 U	9.90 U	1.80 U	9.80 U
Aroclor 1260	1.90 U	9.90 U	2.40 U	13.0 U	1.90 U	9.40 U	1.90 U	9.90 U	3.70 U	20.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.50 U	1.90 U	9.90 U	1.90 U	9.80 U
Aroclor 1262	2.50 U	9.90 U	3.20 U	13.0 U	2.50 U	9.40 U	2.50 U	9.90 U	4.80 U	20.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.50 U	2.50 U	9.90 U	2.50 U	9.80 U
Aroclor 1268	2.00 U	9.90 U	2.50 U	13.0 U	2.00 U	9.40 U	2.00 U	9.90 U	3.90 U	20.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.50 U	2.00 U	9.90 U	2.00 U	9.80 U
Total PCBs as Aroclors <sup>1</sup>	2.60 U	20.00 U	3.30 U	25.0 U	2.60 U	19.00 U	2.60 U	20.00 U	5.00 U	39.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.00 U	2.60 U	20.00 U	2.60 U	20.00 U

**Notes:**

<sup>1</sup>The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area crayfish samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
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Media	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Crayfish	Sculpin											
Site ID	P76-CF	P78-CF	P79-CF	P82-CF	P90-CF	P91-CF	P92-CF	P94-CF	P98-CF	SR-01								
Sample ID	08030376CF	08030378CF	08030379CF	08030382CF	08031290CF	08031291CF	08031292CF	08031294CF	08031298CF	R-1								
Sample Date	3/3/2008	3/3/2008	3/3/2008	3/3/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	3/12/2008	7/23/2008				
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL		
Aroclor 1016	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	9.40 U	4.80 U	20.0 U	2.40 U	9.90 U	2.40 U	9.70 U		
Aroclor 1221	2.60 U	20.0 U	2.60 U	19.0 U	5.20 U	40.0 U	2.60 U	20.0 U	2.60 U	20.0 U								
Aroclor 1232	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	9.40 U	4.60 U	20.0 U	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.70 U
Aroclor 1242	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	9.40 U	4.40 U	20.0 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.70 U
Aroclor 1248	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	9.40 U	1.10 U	20.0 U	0.510 U	9.90 U	0.510 U	10.0 U	45.0 U	45.0 U
Aroclor 1254	1.80 U	10.0 U	1.80 U	10.0 U	1.80 U	9.80 U	1.80 U	10.0 U	1.80 U	9.40 U	3.60 U	20.0 U	1.80 U	9.90 U	1.80 U	10.0 U	1.80 U	9.70 U
Aroclor 1260	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	9.40 U	3.80 U	20.0 U	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	9.70 U
Aroclor 1262	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	9.40 U	5.00 U	20.0 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.70 U
Aroclor 1268	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.40 U	4.00 U	20.0 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.70 U
Total PCBs as Aroclors <sup>1</sup>	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.00 U	2.60 U	20.0 U	2.60 U	19.00 U	5.20 U	40.0 U	2.60 U	20.00 U	2.60 U	20.0 U	45.0 U	45.00 U

**Notes:**

<sup>1</sup>The crayfish and sculpin Total PCBs as Aroclors are shown as the maximum MDL/MRL because all aroclors were undected in Reference Area crayfish and sculpin samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 3 of 10)**

Media	Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin			
Site ID	SR-02	SR-03	SR-04	SR-05	SR-06	SR-07	SR-08	SR-09	SR-10	SR-11										
Sample ID	R-2	R-3	R-4	R-5	R-6	R-7	R-8	R-9	R-10	R-11										
Sample Date	7/24/2008	3/14/2008	10/9/2008	7/24/2008	2/26/2008	3/10/2008	10/9/2008	7/24/2008	7/23/2008	3/3/2008										
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.50 U	2.40 U	9.40 U	2.40 U	9.60 U	2.40 U	9.90 U	2.40 U	9.60 U	2.40 U	9.80 U	2.40 U	9.50 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U
Aroclor 1232	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.50 U	2.30 U	9.40 U	2.30 U	9.60 U	2.30 U	9.90 U	2.30 U	9.60 U	2.30 U	9.80 U	2.30 U	9.50 U
Aroclor 1242	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.50 U	2.20 U	9.40 U	2.20 U	9.60 U	2.20 U	9.90 U	2.20 U	9.60 U	2.20 U	9.80 U	2.20 U	9.50 U
Aroclor 1248	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.50 U	0.510 U	9.40 U	0.510 U	9.60 U	0.510 U	9.90 U	0.510 U	9.60 U	0.510 U	9.80 U	0.510 U	9.50 U
Aroclor 1254	17.0 U	17.0 U	19.0 U	19.0 U	21.0 U	21.0 U	23.0 U	23.0 U	22.0 U	22.0 U	17.0 U	17.0 U	39.0 U	39.0 U	19.0 U	19.0 U	28.0 U	28.0 U	24.0 U	24.0 U
Aroclor 1260	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.50 U	1.90 U	9.40 U	1.90 U	9.60 U	1.90 U	9.90 U	1.90 U	9.60 U	1.90 U	9.80 U	1.90 U	9.50 U
Aroclor 1262	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.50 U	2.50 U	9.40 U	2.50 U	9.60 U	2.50 U	9.90 U	2.50 U	9.60 U	2.50 U	9.80 U	2.50 U	9.50 U
Aroclor 1268	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.50 U	2.00 U	9.40 U	2.00 U	9.60 U	2.00 U	9.90 U	2.00 U	9.60 U	2.00 U	9.80 U	2.00 U	9.50 U
Total PCBs as Aroclors <sup>1</sup>	17.0 U	20.0 U	19.0 U	20.0 U	21.0 U	21.0 U	23.0 U	23.0 U	22.0 U	22.0 U	17.0 U	20.0 U	39.0 U	39.0 U	19.0 U	20.0 U	28.0 U	28.0 U	24.0 U	24.0 U

**Notes:**

<sup>1</sup>The sculpin Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sculpin samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 4 of 10)**

Media	Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	SR-12		SR-13		SR-14		SR-15		SR-16		SR-17		SR-18		20		21		22	
Sample ID	R-12		R-13		R-14		R-15		R-16		R-17		R-18		071027R01SB		071027R02SB		071027R03SB	
Sample Date	10/9/2008		7/23/2008		10/10/2008		10/9/2008		10/10/2008		10/9/2008		7/24/2008		10/27/2007		10/27/2007		10/27/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.20 U	2.40 U	9.20 U	2.40 U	9.40 U	2.40 U	9.60 U	2.40 U	9.50 U	2.40 U	9.70 U	2.40 U	9.80 U	3.50 U	10.0 U	4.70 U	10.0 U	3.40 U	9.90 U
Aroclor 1221	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U	4.70 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	9.20 U	2.30 U	9.20 U	2.30 U	9.40 U	2.30 U	9.60 U	2.30 U	9.50 U	2.30 U	9.70 U	2.30 U	9.80 U	6.10 U	10.0 U	5.90 U	10.0 U	3.90 U	9.90 U
Aroclor 1242	2.20 U	9.20 U	2.20 U	9.20 U	2.20 U	9.40 U	2.20 U	9.60 U	2.20 U	9.50 U	2.20 U	9.70 U	2.20 U	9.80 U	4.50 UJ	10.0 UJ	6.30 UJ	10.0 UJ	2.20 UJ	9.90 UJ
Aroclor 1248	0.510 U	9.20 U	0.510 U	9.20 U	0.510 U	9.40 U	0.510 U	9.60 U	0.510 U	9.50 U	0.510 U	9.70 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.90 U
Aroclor 1254	13.0 U	13.0 U	36.0 U	36.0 U	20.0 U	20.0 U	35.0 U	35.0 U	38.0 U	38.0 U	30.0 U	30.0 U	44.0 U	44.0 U	<b>59.0 J</b>	<b>59.0 J</b>	<b>32.0 J</b>	<b>32.0 J</b>	<b>51.0 J</b>	<b>51.0 J</b>
Aroclor 1260	1.90 U	9.20 U	1.90 U	9.20 U	1.90 U	9.40 U	1.90 U	9.60 U	1.90 U	9.50 U	1.90 U	9.70 U	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	9.20 U	2.50 U	9.20 U	2.50 U	9.40 U	2.50 U	9.60 U	2.50 U	9.50 U	2.50 U	9.70 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	9.20 U	2.00 U	9.20 U	2.00 U	9.40 U	2.00 U	9.60 U	2.00 U	9.50 U	2.00 U	9.70 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.90 U
Total PCBs as Aroclors <sup>1</sup>	13.0 U	19.0 U	36.0 U	36.0 U	20.0 U	20.0 U	35.0 U	35.0 U	38.0 U	38.0 U	30.0 U	30.0 U	44.0 U	44.0 U	<b>63.5 J</b>	<b>69.0 J</b>	<b>38.3 J</b>	<b>42.0 J</b>	<b>53.2 J</b>	<b>60.9 J</b>

**Notes:**

<sup>1</sup>The sculpin Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sculpin samples.

Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 5 of 10)**

Media	Smallmouth Bass										
Site ID	23	24	25	26	27	28	29	30	31		
Sample ID	071027R04SB	071027R05SB	071027R06SB	071115R07SB	080517R10SB	080517R11SB	080517R12SB	080517R13SB	080517R14SB		
Sample Date	10/27/2007	10/27/2007	10/27/2007	11/15/2007	5/17/2008	5/17/2008	5/17/2008	5/17/2008	5/17/2008		
Censoring Level for Undetected Results	MDL	MRL	MDL								
Aroclor 1016	2.40 U	10.0 U	9.90 U	9.90 U	2.40 U	10.0 U	3.80 U	10.0 U	2.40 U	10.0 U	7.90 U
Aroclor 1221	2.60 U	20.0 U	20.0 U	20.0 U	2.60 U	20.0 U	3.80 U	20.0 U	2.60 U	20.0 U	18.0 U
Aroclor 1232	2.30 U	10.0 U	9.90 U	9.90 U	2.30 U	10.0 U	3.10 U	10.0 U	2.30 U	10.0 U	10.0 U
Aroclor 1242	2.20 UJ	10.0 UJ	<b>14.0 J</b>	<b>14.0 J</b>	<b>9.50 J</b>	<b>9.50 J</b>	2.20 UJ	10.0 UJ	<b>5.60 J</b>	<b>5.60 J</b>	10.0 UJ
Aroclor 1248	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U
Aroclor 1254	9.60 UJ	10.0 UJ	<b>110 J</b>	<b>110 J</b>	<b>58.0 J</b>	<b>58.0 J</b>	<b>27.0 J</b>	<b>27.0 J</b>	<b>34.0 J</b>	<b>34.0 J</b>	<b>37.0 J</b>
Aroclor 1260	14.0 U	14.0 U	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U
Aroclor 1262	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U
Aroclor 1268	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U
Total PCBs as Aroclors <sup>1</sup>	11.8 UJ	20.0 UJ	<b>124 J</b>	<b>124 J</b>	<b>67.5 J</b>	<b>67.5 J</b>	<b>29.2 J</b>	<b>37.0 J</b>	<b>39.6 J</b>	<b>39.6 J</b>	<b>47.0 J</b>

**Notes:**

<sup>1</sup> Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-15**  
**Reference Area Sediment and Tissue PCB Aroclor Analysis Results**  
**(Page 6 of 10)**

Media	Smallmouth Bass							
Site ID	32	33	34	35	36	37	38	
Sample ID	080521R15SB	080521R16SB	080521R17SB	080521R18SB	080521R19SB	080521R20SB	080521R21SB	
Sample Date	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	5/21/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	3.10 U	10.0 U	5.90 U	10.0 U	5.20 U	10.0 U	4.50 U	10.0 U
Aroclor 1221	2.60 U	20.0 U	6.90 U	20.0 U	5.90 U	20.0 U	7.40 U	20.0 U
Aroclor 1232	10.0 U	10.0 U	5.70 U	10.0 U	3.90 U	10.0 U	4.40 U	10.0 U
Aroclor 1242	2.20 UJ	10.0 UJ	2.20 UJ	10.0 UJ	2.90 UJ	10.0 UJ	10.0 UJ	10.0 UJ
Aroclor 1248	0.510 U	10.0 U	33.0 U	33.0 U	0.510 U	10.0 U	0.510 U	10.0 U
Aroclor 1254	<b>47.0 J</b>	<b>47.0 J</b>	130 UJ	130 UJ	<b>47.0 J</b>	<b>47.0 J</b>	<b>46.0 J</b>	<b>46.0 J</b>
Aroclor 1260	1.90 U	10.0 U	140 U	140 U	1.90 U	10.0 U	1.90 U	10.0 U
Aroclor 1262	2.50 U	10.0 U	110 U	110 U	2.50 U	10.0 U	2.50 U	10.0 U
Aroclor 1268	2.00 U	10.0 U	10.0 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U
Total PCBs as Aroclors <sup>1</sup>	<b>49.2 J</b>	<b>57.0 J</b>	132 UJ	140 UJ	<b>49.9 J</b>	<b>57.0 J</b>	<b>56.0 J</b>	<b>56.0 J</b>
					<b>87.2 J</b>	<b>95.0 J</b>	<b>47.0 J</b>	<b>47.0 J</b>
							<b>58.0 J</b>	<b>58.0 J</b>

**Notes:**

<sup>1</sup> Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.

Only Aroclor 1254 was included in summing sucker Total PCBs as Aroclors because all other aroclors were undected in Reference Area large scale sucker samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-16**  
**Forebay - Pre-Removal Sediment and Tissue Aroclor Analysis Results**  
**(Page 1 of 1)**

Media	Sediment		Sediment		Sediment		Sediment		Sediment		Clam		Clam		Clam		Clam	
Site ID	A1		A2*		A3		A4		A5		A1*		A2		A3		A5	
Sample ID	070926A1 SD		070926A2 SD		070927A3 SD		070925A4 SD		070925A5 SD		070926A1TC		070926A2TC		070927A3TC		070925A5TC	
Sample Date	9/26/2007		9/26/2007		9/27/2007		9/25/2007		9/25/2007		9/26/2007		9/26/2007		9/27/2007		9/25/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.80 U	4.70 U	20.0 U
Aroclor 1221	2.60 U	16.0 U	2.80 U	16.0 U	5.80 U	34.0 U	3.00 U	17.0 U	2.80 U	17.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	5.10 U	40.0 U
Aroclor 1232	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.80 U	4.50 U	20.0 U
Aroclor 1242	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.80 U	4.40 U	20.0 U
Aroclor 1248	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.80 U	1.00 U	20.0 U
Aroclor 1254	<b>130</b>	<b>130</b>	<b>44.0</b>	<b>44.0</b>	5.80 U	17.0 U	<b>100</b>	<b>100</b>	<b>13.0</b>	<b>13.0</b>	<b>355</b>	<b>355</b>	<b>250</b>	<b>250</b>	<b>180</b>	<b>180</b>	<b>120</b>	<b>120</b>
Aroclor 1260	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	1.90 U	10.0 U	1.90 U	9.90 U	1.90 U	9.80 U	3.80 U	20.0 U
Aroclor 1262	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	-	-	-	-	-	-	-	-
Aroclor 1268	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	4.00 U	20.0 U
Total PCBs as Aroclors <sup>1</sup>	<b>133 J</b>	<b>138 J</b>	<b>46.8 J</b>	<b>52.0 J</b>	11.6 U	34.0 U	<b>103 J</b>	<b>109 J</b>	<b>15.8 J</b>	<b>21.1 J</b>	<b>355</b>	<b>355</b>	<b>250</b>	<b>250</b>	<b>180</b>	<b>180</b>	<b>120</b>	<b>120</b>

**Notes:**

<sup>1</sup> Only Aroclor 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.

Only Aroclor 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Sediment is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

Tissue is in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), wet weight

**Table H-17**  
**Downstream Sediment PCB Aroclor Analysis Results**  
**(Page 1 of 1)**

Site ID	P46		P47		P48		P49		P50		P51	
Sample ID	<b>08031046SD</b>		<b>08031047SD</b>		<b>08031048SD</b>		<b>08031049SD</b>		<b>08031150SD</b>		<b>08031151SD</b>	
Sample Date	3/10/2008		3/10/2008		3/10/2008		3/10/2008		3/11/2008		3/11/2008	
Censoring Level for Undetected Results	MDL	MRL										
Aroclor 1016	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1221	1.70 U	14.0 U	1.70 U	14.0 U	1.70 U	15.0 U	1.70 U	15.0 U	1.70 U	18.0 U	1.70 U	15.0 U
Aroclor 1232	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1242	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1248	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1254	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1260	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1262	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1268	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Total PCBs as Aroclors <sup>1</sup>	1.70 U	14.0 U	1.70 U	14.0 U	1.70 U	15.0 U	1.70 U	15.0 U	1.70 U	18.0 U	1.70 U	15.0 U

**Notes:**

<sup>1</sup> Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Downstream sediment samples.

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

**Table H-18**  
**Forebay - Random Sediment PAH Analysis Results**  
**(Page 1 of 2)**

Site ID	P04		P05		P06		P07		P08		P09		P10		P11		P13		P14	
Sample ID	08022604SD		08031905SD		08031806SD		08021507SD		08021508SD		08021409SD		08021410SD		08021411SD		08031713SD		08031814SD	
Sample Date	2/26/2008		3/19/2008		3/18/2008		2/15/2008		2/15/2008		2/14/2008		2/14/2008		2/14/2008		3/17/2008		3/18/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>																				
Acenaphthene	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.80 U	1.00 U	9.90 U	1.00 U	9.80 U	1.00 U	9.90 U	1.00 U	9.90 U	1.00 U	10.0 U	1.00 U	9.80 U	1.00 U	9.90 U
Anthracene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.80 U	1.40 U	9.90 U	1.40 U	9.80 U	1.40 U	9.90 U	1.40 U	9.90 U	<b>2.00 J</b>	<b>2.00 J</b>	<b>2.70 J</b>	<b>2.70 J</b>	1.40 U	9.90 U
Fluorene	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U
Phenanthrene	<b>3.30 J</b>	<b>3.30 J</b>	<b>1.40 J</b>	<b>1.40 J</b>	1.30 U	9.80 U	<b>3.40 J</b>	<b>3.40 J</b>	1.30 U	9.80 U	<b>1.80 J</b>	<b>1.80 J</b>	<b>1.90 J</b>	<b>1.90 J</b>	<b>7.10 J</b>	<b>7.10 J</b>	<b>5.40 J</b>	<b>5.40 J</b>	<b>2.10 J</b>	<b>2.10 J</b>
Total LPAHs (full MDL/MRL)	<b>7.40 J</b>	<b>33.3 J</b>	<b>5.50 J</b>	<b>31.4 J</b>	5.40 U	39.2 U	<b>7.50 J</b>	<b>33.1 J</b>	5.40 U	39.2 U	<b>5.90 J</b>	<b>31.5 J</b>	<b>6.00 J</b>	<b>31.6 J</b>	<b>11.8 J</b>	<b>29.1 J</b>	<b>10.8 J</b>	<b>27.7 J</b>	<b>6.20 J</b>	<b>31.8 J</b>
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC							
Total LPAHs (KM, capped)	<b>7.40 J</b>	<b>33.3 J</b>	<b>5.50 J</b>	<b>31.4 J</b>	5.40 U	39.2 U	<b>7.50 J</b>	<b>33.1 J</b>	5.40 U	39.2 U	<b>5.90 J</b>	<b>31.5 J</b>	<b>6.00 J</b>	<b>31.6 J</b>	<b>11.8 J</b>	<b>29.1 J</b>	<b>10.8 J</b>	<b>27.7 J</b>	<b>6.20 J</b>	<b>31.8 J</b>
<b>HPAHs</b>																				
Benzo(a)anthracene	<b>3.90 J</b>	<b>3.90 J</b>	<b>1.60 J</b>	<b>1.60 J</b>	1.40 U	9.80 U	1.40 U	9.90 U	1.40 U	9.80 U	<b>2.70 J</b>	<b>2.70 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>7.40 J</b>	<b>7.40 J</b>	<b>12.0</b>	<b>12.0</b>	<b>2.20 J</b>	<b>2.20 J</b>
Benzo(a)pyrene	<b>4.40 J</b>	<b>4.40 J</b>	<b>1.70 J</b>	<b>1.70 J</b>	1.60 U	9.80 U	1.60 U	9.90 U	1.60 U	9.80 U	<b>4.50 J</b>	<b>4.50 J</b>	<b>3.00 J</b>	<b>3.00 J</b>	<b>7.50 J</b>	<b>7.50 J</b>	<b>6.10 J</b>	<b>6.10 J</b>	<b>2.00 J</b>	<b>2.00 J</b>
Benzo(b)fluoranthene	<b>6.10 J</b>	<b>6.10 J</b>	2.50 U	10.0 U	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	9.80 U	<b>5.80 J</b>	<b>5.80 J</b>	<b>4.10 J</b>	<b>4.10 J</b>	<b>9.10 J</b>	<b>9.10 J</b>	<b>6.00 J</b>	<b>6.00 J</b>	2.50 U	9.90 U
Benzo(g,h,i)perylene	<b>3.90 J</b>	<b>3.90 J</b>	2.30 U	10.0 U	2.30 U	9.80 U	2.30 U	9.90 U	2.30 U	9.80 U	<b>3.30 J</b>	<b>3.30 J</b>	<b>2.90 J</b>	<b>2.90 J</b>	<b>4.40 J</b>	<b>4.40 J</b>	<b>3.50 J</b>	<b>3.50 J</b>	2.30 U	9.90 U
Benzo(k)fluoranthene	<b>2.50 J</b>	<b>2.50 J</b>	2.50 U	10.0 U	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.90 U	<b>3.30 J</b>	<b>3.30 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	2.50 U	9.90 U		
Chrysene	<b>7.80 J</b>	<b>7.80 J</b>	<b>1.80 J</b>	<b>1.80 J</b>	<b>1.50 J</b>	<b>1.50 J</b>	<b>1.40 J</b>	<b>1.40 J</b>	1.40 U	9.80 U	<b>4.20 J</b>	<b>4.20 J</b>	<b>4.10 J</b>	<b>4.10 J</b>	<b>9.30 J</b>	<b>9.30 J</b>	<b>20.0</b>	<b>20.0</b>	<b>2.40 J</b>	<b>2.40 J</b>
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	9.90 U
Fluoranthene	<b>5.50 J</b>	<b>5.50 J</b>	<b>3.00 J</b>	<b>3.00 J</b>	2.20 U	9.80 U	<b>2.50 J</b>	<b>2.50 J</b>	2.20 U	9.80 U	<b>3.70 J</b>	<b>3.70 J</b>	<b>3.80 J</b>	<b>3.80 J</b>	<b>10.0</b>	<b>10.0</b>	<b>5.30 J</b>	<b>5.30 J</b>	<b>3.20 J</b>	<b>3.20 J</b>
Indeno(1,2,3-cd)pyrene	<b>3.30 J</b>	<b>3.30 J</b>	1.90 U	10.0 U	1.90 U	9.80 U	1.90 U	9.90 U	1.90 U	9.80 U	<b>3.20 J</b>	<b>3.20 J</b>	<b>2.20 J</b>	<b>2.20 J</b>	<b>4.70 J</b>	<b>4.70 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	1.90 U	9.90 U
Pyrene	<b>5.60 J</b>	<b>5.60 J</b>	<b>2.40 J</b>	<b>2.40 J</b>	<b>1.80 J</b>	<b>1.80 J</b>	<b>2.00 J</b>	<b>2.00 J</b>	1.30 U	9.80 U	<b>3.50 J</b>	<b>3.50 J</b>	<b>3.70 J</b>	<b>3.70 J</b>	<b>12.0</b>	<b>12.0</b>	<b>8.90 J</b>	<b>8.90 J</b>	<b>3.20 J</b>	<b>3.20 J</b>
Total HPAHs (full MDL/MRL)	<b>45.2 J</b>	<b>53.0 J</b>	<b>21.9 J</b>	<b>60.5 J</b>	<b>19.9 J</b>	<b>81.7 J</b>	<b>20.3 J</b>	<b>75.2 J</b>	19.3 U	98.0 U	<b>35.6 J</b>	<b>50.7 J</b>	<b>30.8 J</b>	<b>45.9 J</b>	<b>69.9 J</b>	<b>77.7 J</b>	<b>72.5 J</b>	<b>80.1 J</b>	<b>24.4 J</b>	<b>62.5 J</b>
Total HPAHs (KM)	<b>45.2 J</b>	<b>47.8 J</b>	<b>19.2 J</b>	<b>21.0 J</b>	<b>15.4 J</b>	<b>16.5 J</b>	<b>16.2 J</b>	<b>19.7 J</b>	NC	NC	<b>35.3 J</b>	<b>38.6 J</b>	<b>30.5 J</b>	<b>32.6 J</b>	<b>69.9 J</b>	<b>74.2 J</b>	<b>72.5 J</b>	<b>75.8 J</b>	<b>23.0 J</b>	<b>26.0 J</b>
Total HPAHs (KM, capped)	<b>45.2 J</b>	<b>47.8 J</b>	<b>19.2 J</b>	<b>21.0 J</b>	<b>15.4 J</b>	<b>16.5 J</b>	<b>16.2 J</b>	<b>19.7 J</b>	19.3 U	98.0 U	<b>35.3 J</b>	<b>38.6 J</b>	<b>30.5 J</b>	<b>32.6 J</b>	<b>69.9 J</b>	<b>74.2 J</b>	<b>72.5 J</b>	<b>75.8 J</b>	<b>23.0 J</b>	<b>26.0 J</b>
Total PAHs (full MDL/MRL)	<b>52.6 J</b>	<b>86.3 J</b>	<b>27.4 J</b>	<b>91.9 J</b>	<b>25.3 J</b>	<b>121 J</b>	<b>27.8 J</b>	<b>108 J</b>	24.7 U	137 U	<b>41.5 J</b>	<b>82.2 J</b>	<b>36.8 J</b>	<b>77.5 J</b>	<b>81.7 J</b>	<b>107 J</b>	<b>83.3 J</b>	<b>108 J</b>	<b>30.6 J</b>	<b>94.3 J</b>
Total PAHs (KM)	<b>50.3 J</b>	<b>64.8 J</b>	<b>22.3 J</b>	<b>27.8 J</b>	<b>16.6 J</b>	<b>23.1 J</b>	<b>20.5 J</b>	<b>32.6 J</b>	NC	NC	<b>38.1 J</b>	<b>50.9 J</b>	<b>33.7 J</b>	<b>43.6 J</b>	<b>80.1 J</b>	<b>95.1 J</b> </				

**Table H-18**  
**Forebay - Random Sediment PAH Analysis Results**  
**(Page 2 of 2)**

Site ID	P15		P16		P17		P18		P21		P65		P67		P88		P89	
Sample ID	08022115SD		08022116SD		08022117SD		08021118SD		08021221SD		08022965SD		08030367SD		08031788SD		08031789SD	
Sample Date	2/21/2008		2/21/2008		2/21/2008		2/11/2008		2/12/2008		2/29/2008		3/3/2008		3/17/2008		3/17/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL										
<b>LPAHs</b>																		
Acenaphthene	1.00 U	10.0 U	1.00 U	9.90 U	1.00 U	10.0 U	1.00 U	10.00 U	1.00 U	10.0 U	1.00 U	9.90 U	1.00 U	9.90 U	1.00 U	9.80 U	1.00 U	9.80 U
Anthracene	1.40 U	10.0 U	<b>1.90 J</b>	<b>1.90 J</b>	<b>1.90 J</b>	<b>1.90 J</b>	1.40 U	10.0 U	1.40 U	10.0 U	<b>1.50 J</b>	<b>1.50 J</b>	1.40 U	9.90 U	1.40 U	9.80 U	1.40 U	9.80 U
Fluorene	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	9.90 U	1.70 U	9.80 U	1.70 U	9.80 U
Phenanthrene	<b>4.60 J</b>	<b>4.60 J</b>	<b>5.00 J</b>	<b>5.00 J</b>	<b>7.40 J</b>	<b>7.40 J</b>	<b>2.90 J</b>	<b>2.90 J</b>	1.30 U	10.0 U	<b>2.20 J</b>	<b>2.20 J</b>	1.30 U	9.90 U	<b>1.70 J</b>	<b>1.70 J</b>	1.30 U	9.80 U
Total LPAHs (full MDL/MRL)	<b>8.70 J</b>	<b>34.6 J</b>	<b>9.60 J</b>	<b>26.7 J</b>	<b>12.0 J</b>	<b>29.3 J</b>	<b>7.00 J</b>	<b>32.9 J</b>	5.40 U	40.0 U	<b>6.40 J</b>	<b>23.5 J</b>	5.40 U	39.6 U	<b>5.80 J</b>	<b>31.1 J</b>	5.40 U	39.2 U
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC											
Total LPAHs (KM, capped)	<b>8.70 J</b>	<b>34.6 J</b>	<b>9.60 J</b>	<b>26.7 J</b>	<b>12.0 J</b>	<b>29.3 J</b>	<b>7.00 J</b>	<b>32.9 J</b>	5.40 U	40.0 U	<b>6.40 J</b>	<b>23.5 J</b>	5.40 U	39.6 U	<b>5.80 J</b>	<b>31.1 J</b>	5.40 U	39.2 U
<b>HPAHs</b>																		
Benzo(a)anthracene	<b>2.10 J</b>	<b>2.10 J</b>	<b>5.90 J</b>	<b>5.90 J</b>	<b>6.00 J</b>	<b>6.00 J</b>	<b>2.00 J</b>	<b>2.00 J</b>	1.40 U	10.0 U	<b>7.00 J</b>	<b>7.00 J</b>	1.40 U	9.90 U	1.40 U	9.80 U	1.40 U	9.80 U
Benzo(a)pyrene	1.60 U	10.0 U	<b>6.50 J</b>	<b>6.50 J</b>	<b>7.20 J</b>	<b>7.20 J</b>	<b>2.60 J</b>	<b>2.60 J</b>	1.60 U	10.0 U	<b>6.10 J</b>	<b>6.10 J</b>	1.60 U	9.90 U	1.60 U	9.80 U	1.60 U	9.80 U
Benzo(b)fluoranthene	2.50 U	10.0 U	<b>8.00 J</b>	<b>8.00 J</b>	<b>7.50 J</b>	<b>7.50 J</b>	<b>4.00 J</b>	<b>4.00 J</b>	2.50 U	10.0 U	<b>5.60 J</b>	<b>5.60 J</b>	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.80 U
Benzo(g,h,i)perylene	2.30 U	10.0 U	<b>5.00 J</b>	<b>5.00 J</b>	<b>6.20 J</b>	<b>6.20 J</b>	<b>2.60 J</b>	<b>2.60 J</b>	2.30 U	10.0 U	<b>4.20 J</b>	<b>4.20 J</b>	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	9.80 U
Benzo(k)fluoranthene	2.50 U	10.0 U	<b>3.10 J</b>	<b>3.10 J</b>	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	<b>3.20 J</b>	<b>3.20 J</b>	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.80 U
Chrysene	<b>3.40 J</b>	<b>3.40 J</b>	<b>7.60 J</b>	<b>7.60 J</b>	<b>7.90 J</b>	<b>7.90 J</b>	<b>3.20 J</b>	<b>3.20 J</b>	<b>1.80 J</b>	<b>1.80 J</b>	<b>12.0</b>	<b>12.0</b>	1.40 U	9.90 U	<b>1.70 J</b>	<b>1.70 J</b>	1.40 U	9.80 U
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.80 U
Fluoranthene	<b>4.00 J</b>	<b>4.00 J</b>	<b>9.70 J</b>	<b>9.70 J</b>	<b>12.0</b>	<b>12.0</b>	<b>4.80 J</b>	<b>4.80 J</b>	<b>2.70 J</b>	<b>2.70 J</b>	<b>4.60 J</b>	<b>4.60 J</b>	2.20 U	9.90 U	<b>2.60 J</b>	<b>2.60 J</b>	2.20 U	9.80 U
Indeno(1,2,3-cd)pyrene	1.90 U	10.0 U	<b>5.40 J</b>	<b>5.40 J</b>	<b>5.70 J</b>	<b>5.70 J</b>	<b>2.50 J</b>	<b>2.50 J</b>	1.90 U	10.0 U	<b>4.10 J</b>	<b>4.10 J</b>	1.90 U	9.90 U	1.90 U	9.80 U	1.90 U	9.80 U
Pyrene	<b>5.30 J</b>	<b>5.30 J</b>	<b>11.0</b>	<b>11.0</b>	<b>17.0</b>	<b>17.0</b>	<b>4.80 J</b>	<b>4.80 J</b>	<b>2.20 J</b>	<b>2.20 J</b>	<b>4.40 J</b>	<b>4.40 J</b>	1.30 U	9.90 U	<b>2.20 J</b>	<b>2.20 J</b>	1.30 U	9.80 U
Total HPAHs (full MDL/MRL)	<b>27.8 J</b>	<b>74.8 J</b>	<b>64.4 J</b>	<b>72.1 J</b>	<b>74.2 J</b>	<b>89.5 J</b>	<b>31.2 J</b>	<b>46.5 J</b>	<b>21.1 J</b>	<b>76.7 J</b>	<b>53.4 J</b>	<b>61.1 J</b>	19.3 U	99.0 U	<b>20.9 J</b>	<b>75.1 J</b>	19.3 U	98.0 U
Total HPAHs (KM)	<b>25.1 J</b>	<b>37.0 J</b>	<b>64.4 J</b>	<b>68.6 J</b>	<b>73.9 J</b>	<b>83.0 J</b>	<b>30.5 J</b>	<b>33.1 J</b>	<b>17.5 J</b>	<b>22.3 J</b>	<b>53.4 J</b>	<b>56.1 J</b>	NC	NC	<b>17.2 J</b>	<b>21.7 J</b>	NC	NC
Total HPAHs (KM, capped)	<b>25.1 J</b>	<b>37.0 J</b>	<b>64.4 J</b>	<b>68.6 J</b>	<b>73.9 J</b>	<b>83.0 J</b>	<b>30.5 J</b>	<b>33.1 J</b>	<b>17.5 J</b>	<b>22.3 J</b>	<b>53.4 J</b>	<b>56.1 J</b>	19.3 U	99.0 U	<b>17.2 J</b>	<b>21.7 J</b>	19.3 U	98.0 U
Total PAHs (full MDL/MRL)	<b>36.5 J</b>	<b>109 J</b>	<b>74.0 J</b>	<b>98.8 J</b>	<b>86.2 J</b>	<b>119 J</b>	<b>38.2 J</b>	<b>79.4 J</b>	<b>26.5 J</b>	<b>117 J</b>	<b>59.8 J</b>	<b>84.6 J</b>	24.7 U	139 U	<b>26.7 J</b>	<b>106 J</b>	24.7 U	137 U
Total PAHs (KM)	<b>29.1 J</b>	<b>54.3 J</b>	<b>72.4 J</b>	<b>86.5 J</b>	<b>83.4 J</b>	<b>104 J</b>	<b>34.9 J</b>	<b>45.7 J</b>	<b>18.6 J</b>	<b>31.3 J</b>	<b>58.4 J</b>	<b>67.8 J</b>	NC	NC	<b>19.5 J</b>	<b>28.7 J</b>	NC	NC
Total PAHs (KM, capped)	<b>29.1 J</b>	<b>54.3 J</b>	<b>72.4 J</b>	<b>86.5 J</b>	<b>83.4 J</b>	<b>104 J</b>	<b>34.9 J</b>	<b>45.7 J</b>	<b>18.6 J</b>	<b>31.3 J</b>	<b>58.4 J</b>	<b>67.8 J</b>	24.7 U	139 U	<b>19.5 J</b>	<b>28.7 J</b>	24.7 U	137 U

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

NC = Not calculated

KM = Kaplan-Meier-based with Efron's bias correction

**Table H-19**  
**Forebay - Targeted Sediment PAH Analysis Results**  
**(Page 1 of 1)**

Site	Forebay - Eagle Creek		Forebay - Eagle Creek		Forebay - Goose Island		Forebay - Goose Island	
Site ID	P43		P44		P110		P111	
Sample ID	08032043SD		08032044SD		090427110SD		090429111SD	
Sample Date	3/20/2008		3/20/2008		4/27/2009		4/29/2009	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>								
Acenaphthene	1.00 U	9.90 U	1.00 U	9.90 U	1.20 U	12.0 U	1.30 U	13.0 U
Anthracene	1.40 U	9.90 U	<b>2.60 J</b>	<b>2.60 J</b>	1.70 U	12.0 U	1.80 U	13.0 U
Fluorene	1.70 U	9.90 U	1.70 U	9.90 U	2.10 U	12.0 U	2.20 U	13.0 U
Phenanthrene	<b>2.30 J</b>	<b>2.30 J</b>	<b>6.50 J</b>	<b>6.50 J</b>	<b>3.80 J</b>	<b>3.80 J</b>	<b>4.60 J</b>	<b>4.60 J</b>
Total LPAHs (full MDL/MRL)	<b>6.40 J</b>	<b>32.0 J</b>	<b>11.8 J</b>	<b>28.9 J</b>	<b>8.80 J</b>	<b>39.8 J</b>	<b>9.90 J</b>	<b>43.6 J</b>
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	<b>6.40 J</b>	<b>32.0 J</b>	<b>11.8 J</b>	<b>28.9 J</b>	<b>8.80 J</b>	<b>39.8 J</b>	<b>9.90 J</b>	<b>43.6 J</b>
<b>HPAHs</b>								
Benzo(a)anthracene	1.40 U	9.90 U	<b>6.60 J</b>	<b>6.60 J</b>	<b>4.20 J</b>	<b>4.20 J</b>	<b>7.80 J</b>	<b>7.80 J</b>
Benzo(a)pyrene	1.60 U	9.90 U	<b>7.10 J</b>	<b>7.10 J</b>	<b>8.70 J</b>	<b>8.70 J</b>	<b>13.0 J</b>	<b>13.0 J</b>
Benzo(b)fluoranthene	2.50 U	9.90 U	<b>11.0</b>	<b>11.0</b>	<b>6.50 J</b>	<b>6.50 J</b>	<b>15.0</b>	<b>15.0</b>
Benzo(g,h,i)perylene	2.30 U	9.90 U	<b>5.00 J</b>	<b>5.00 J</b>	<b>5.60 J</b>	<b>5.60 J</b>	<b>9.90 J</b>	<b>9.90 J</b>
Benzo(k)fluoranthene	2.50 U	9.90 U	<b>3.40 J</b>	<b>3.40 J</b>	3.00 U	12.0 U	<b>4.10 J</b>	<b>4.10 J</b>
Chrysene	<b>1.80 J</b>	<b>1.80 J</b>	<b>13.0</b>	<b>13.0</b>	<b>5.80 J</b>	<b>5.80 J</b>	<b>11.0 J</b>	<b>11.0 J</b>
Dibenz(a,h)anthracene	2.20 U	9.90 U	2.20 U	9.90 U	2.70 U	12.0 U	2.80 U	13.0 U
Fluoranthene	2.20 U	9.90 U	<b>11.0</b>	<b>11.0</b>	<b>7.30 J</b>	<b>7.30 J</b>	<b>9.60 J</b>	<b>9.60 J</b>
Indeno(1,2,3-cd)pyrene	1.90 U	9.90 U	<b>4.60 J</b>	<b>4.60 J</b>	<b>5.00 J</b>	<b>5.00 J</b>	<b>7.10 J</b>	<b>7.10 J</b>
Pyrene	<b>3.40 J</b>	<b>3.40 J</b>	<b>17.0</b>	<b>17.0</b>	<b>7.20 J</b>	<b>7.20 J</b>	<b>8.80 J</b>	<b>8.80 J</b>
Total HPAHs (full MDL/MRL)	<b>21.8 J</b>	<b>84.4 J</b>	<b>80.9 J</b>	<b>88.6 J</b>	<b>56.0 J</b>	<b>74.3 J</b>	<b>89.1 J</b>	<b>99.3 J</b>
Total HPAHs (KM)	<b>17.2 J</b>	<b>26.0 J</b>	<b>80.9 J</b>	<b>84.0 J</b>	<b>55.7 J</b>	<b>62.9 J</b>	<b>89.1 J</b>	<b>94.6 J</b>
Total HPAHs (KM, capped)	<b>17.2 J</b>	<b>26.0 J</b>	<b>80.9 J</b>	<b>84.0 J</b>	<b>55.7 J</b>	<b>62.9 J</b>	<b>89.1 J</b>	<b>94.6 J</b>
Total PAHs (full MDL/MRL)	<b>28.2 J</b>	<b>116 J</b>	<b>92.7 J</b>	<b>118 J</b>	<b>64.8 J</b>	<b>114 J</b>	<b>99.0 J</b>	<b>143 J</b>
Total PAHs (KM)	<b>19.5 J</b>	<b>35.0 J</b>	<b>90.8 J</b>	<b>103 J</b>	<b>60.1 J</b>	<b>84.2 J</b>	<b>96.1 J</b>	<b>122 J</b>
Total PAHs (KM, capped)	<b>19.5 J</b>	<b>35.0 J</b>	<b>90.8 J</b>	<b>103 J</b>	<b>60.1 J</b>	<b>84.2 J</b>	<b>96.1 J</b>	<b>122 J</b>

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

NC = Not calculated

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-20**  
**Reference Area Sediment PAH Analysis Results**  
 (Page 1 of 2)

Site ID	P22		P24		P26		P27		P28		P29		P34		P35		P36	
Sample ID	<b>08030522SD</b>		<b>08030524SD</b>		<b>08030426SD</b>		<b>08030427SD</b>		<b>08030428SD</b>		<b>08022229SD</b>		<b>08022534SD</b>		<b>08022535SD</b>		<b>08022536SD</b>	
Sample Date	3/5/2008		3/5/2008		3/4/2008		3/4/2008		3/4/2008		2/22/2008		2/25/2008		2/25/2008		2/25/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL										
<b>LPAHs</b>																		
Acenaphthene	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.90 U	1.00 U	9.50 U	1.10 U	11.0 U	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.90 U
Anthracene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 U	9.50 U	1.50 U	11.0 U	1.40 U	10.0 U	1.40 U	10.0 U	<b>2.30 J</b>	<b>2.30 J</b>	1.40 U	9.90 U
Fluorene	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.90 UJ	1.70 UJ	9.50 UJ	1.80 UJ	11.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.90 UJ
Phenanthrene	<b>2.30 J</b>	<b>2.30 J</b>	<b>2.20 J</b>	<b>2.20 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	<b>2.10 J</b>	<b>2.10 J</b>	<b>3.70 J</b>	<b>3.70 J</b>	<b>3.00 J</b>	<b>3.00 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>3.20 J</b>	<b>3.20 J</b>
Total LPAHs (full MDL/MRL)	<b>6.40 J</b>	<b>32.3 J</b>	<b>6.30 J</b>	<b>32.2 J</b>	<b>7.70 J</b>	<b>33.3 J</b>	<b>7.40 J</b>	<b>31.8 J</b>	<b>6.50 J</b>	<b>35.1 J</b>	<b>7.80 J</b>	<b>33.7 J</b>	<b>7.10 J</b>	<b>33.0 J</b>	<b>7.30 J</b>	<b>24.6 J</b>	<b>7.30 J</b>	<b>32.9 J</b>
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC										
Total LPAHs (KM, capped)	<b>6.40 J</b>	<b>32.3 J</b>	<b>6.30 J</b>	<b>32.2 J</b>	<b>7.70 J</b>	<b>33.3 J</b>	<b>7.40 J</b>	<b>31.8 J</b>	<b>6.50 J</b>	<b>35.1 J</b>	<b>7.80 J</b>	<b>33.7 J</b>	<b>7.10 J</b>	<b>33.0 J</b>	<b>7.30 J</b>	<b>24.6 J</b>	<b>7.30 J</b>	<b>32.9 J</b>
<b>HPAHs</b>																		
Benzo(a)anthracene	<b>1.80 J</b>	<b>1.80 J</b>	<b>1.60 J</b>	<b>1.60 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	<b>2.90 J</b>	<b>2.90 J</b>	<b>2.20 J</b>	<b>2.20 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	
Benzo(a)pyrene	<b>1.60 J</b>	<b>1.60 J</b>	1.60 U	10.0 U	<b>3.20 J</b>	<b>3.20 J</b>	1.60 U	9.50 U	<b>4.80 J</b>	<b>4.80 J</b>	<b>3.80 J</b>	<b>3.80 J</b>	1.60 U	10.0 U	1.60 U	10.0 U	<b>6.20 J</b>	<b>6.20 J</b>
Benzo(b)fluoranthene	2.50 U	10.0 U	2.50 U	10.0 U	<b>4.40 J</b>	<b>4.40 J</b>	<b>4.80 J</b>	<b>4.80 J</b>	<b>5.80 J</b>	<b>5.80 J</b>	<b>5.00 J</b>	<b>5.00 J</b>	<b>5.50 J</b>	<b>5.50 J</b>	<b>3.70 J</b>	<b>3.70 J</b>	<b>8.30 J</b>	<b>8.30 J</b>
Benzo(g,h,i)perylene	2.30 U	10.0 U	2.30 U	10.0 U	<b>4.70 J</b>	<b>4.70 J</b>	<b>3.20 J</b>	<b>3.20 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	<b>3.50 J</b>	<b>3.50 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	<b>2.70 J</b>	<b>2.70 J</b>	<b>7.90 J</b>	<b>7.90 J</b>
Benzo(k)fluoranthene	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.50 U	2.60 U	11.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Chrysene	<b>9.70 J</b>	<b>9.70 J</b>	<b>2.10 J</b>	<b>2.10 J</b>	<b>3.70 J</b>	<b>3.70 J</b>	<b>3.50 J</b>	<b>3.50 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	<b>4.00 J</b>	<b>4.00 J</b>	<b>4.40 J</b>	<b>4.40 J</b>	<b>3.10 J</b>	<b>3.10 J</b>	<b>4.80 J</b>	<b>4.80 J</b>
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.50 U	2.30 U	11.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U
Fluoranthene	<b>3.60 J</b>	<b>3.60 J</b>	<b>2.60 J</b>	<b>2.60 J</b>	<b>6.40 J</b>	<b>6.40 J</b>	<b>6.20 J</b>	<b>6.20 J</b>	<b>6.10 J</b>	<b>6.10 J</b>	<b>2.20 UU</b>	<b>10.0 UU</b>	<b>5.10 J</b>	<b>5.10 J</b>	<b>5.60 J</b>	<b>5.60 J</b>	<b>5.50 J</b>	<b>5.50 J</b>
Indeno(1,2,3-cd)pyrene	1.90 UJ	10.0 UJ	1.90 UJ	10.0 UJ	<b>3.30 J</b>	<b>3.30 J</b>	<b>2.70 J</b>	<b>2.70 J</b>	<b>3.20 J</b>	<b>3.20 J</b>	1.90 UJ	10.0 UJ	1.90 UJ	10.0 UJ	<b>2.20 J</b>	<b>2.20 J</b>	<b>8.80 J</b>	<b>8.80 J</b>
Pyrene	<b>2.60 J</b>	<b>2.60 J</b>	<b>1.70 J</b>	<b>1.70 J</b>	<b>7.00 J</b>	<b>7.00 J</b>	<b>4.50 J</b>	<b>4.50 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	<b>4.80 J</b>	<b>4.80 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	<b>7.10 J</b>	<b>7.10 J</b>
Total HPAHs (full MDL/MRL)	<b>30.7 J</b>	<b>69.3 J</b>	<b>21.0 J</b>	<b>68.0 J</b>	<b>39.7 J</b>	<b>54.8 J</b>	<b>34.8 J</b>	<b>57.0 J</b>	<b>41.8 J</b>	<b>58.9 J</b>	<b>33.3 J</b>	<b>64.5 J</b>	<b>34.5 J</b>	<b>66.3 J</b>	<b>29.1 J</b>	<b>52.8 J</b>	<b>56.6 J</b>	<b>71.7 J</b>
Total HPAHs (KM)	<b>27.8 J</b>	<b>38.6 J</b>	<b>18.1 J</b>	<b>20.0 J</b>	<b>39.5 J</b>	<b>43.8 J</b>	<b>33.3 J</b>	<b>40.7 J</b>	<b>41.5 J</b>	<b>46.1 J</b>	<b>32.1 J</b>	<b>40.8 J</b>	<b>32.7 J</b>	<b>43.8 J</b>	<b>27.9 J</b>	<b>32.6 J</b>	<b>56.3 J</b>	<b>64.9 J</b>
Total HPAHs (KM, capped)	<b>27.8 J</b>	<b>38.6 J</b>	<b>18.1 J</b>	<b>20.0 J</b>	<b>39.5 J</b>	<b>43.8 J</b>	<b>33.3 J</b>	<b>40.7 J</b>	<b>41.5 J</b>	<b>46.1 J</b>	<b>32.1 J</b>	<b>40.8 J</b>	<b>32.7 J</b>	<b>43.8 J</b>	<b>27.9 J</b>	<b>32.6 J</b>	<b>56.3 J</b>	<b>64.9 J</b>
Total PAHs (full MDL/MRL)	<b>37.1 J</b>	<b>102 J</b>	<b>27.3 J</b>	<b>100 J</b>	<b>47.4 J</b>	<b>88.1 J</b>	<b>42.2 J</b>	<b>88.8 J</b>	<b>48.3 J</b>	<b>94.0 J</b>	<b>41.1 J</b>	<b>98.2 J</b>	<b>41.6 J</b>	<b>99.3 J</b>	<b>36.4 J</b>	<b>77.4 J</b>	<b>63.9 J</b>	<b>105 J</b>
Total PAHs (KM)	<b>31.6 J</b>	<b>50.4 J</b>	<b>21.2 J</b>	<b>28.6 J</b>	<b>43.9 J</b>	<b>60.0 J</b>	<b>37.8 J</b>	<b>55.7 J</b>	<b>45.0 J</b>	<b>60.7 J</b>	<b>35.2 J</b>	<b>56.4 J</b>	<b>36.3 J</b>	<b>58.6 J</b>	<b>33.0 J</b>	<b>42.6 J</b>	<b>60.1 J</b>	<b>85.7 J</b>
Total PAHs (KM, capped)	<b>31.6 J</b>	<b>50.4 J</b>	<b>21.2 J</b>	<b>28.6 J</b>	<b>43.9 J</b>	<b>60.0 J</b>	<b>37.8 J</b>	<b>55.7 J</b>	<b>45.0 J</b>	<b>60.7 J</b>	<b>35.2 J</b>	<b>56.4 J</b>	<b>36.3 J</b>	<b>58.6 J</b>	<b>33.0 J</b>	<b>42.6 J</b>	<b>60.1 J</b>	<b>85.7 J</b>

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH =

**Table H-20**  
**Reference Area Sediment PAH Analysis Results**  
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Site ID	P37		P38		P39		P40		P41		P42		P85		P86		P87	
Sample ID	08022637SD		08022738SD		08022739SD		08022740SD		08022741SD		08022742SD		08030685SD		08030686SD		08030687SD	
Sample Date	2/26/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		3/6/2008		3/6/2008		3/6/2008	
Censoring Level for Undetected Results	MDL	MRL																
<b>LPAHs</b>																		
Acenaphthene	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.80 U	1.00 U	9.80 U	1.00 U	9.90 U	1.00 U	10.0 U	1.00 U	9.90 U	1.00 UJ	10.0 UJ
Anthracene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.80 U	<b>1.40 J</b>	<b>1.40 J</b>	1.40 U	9.90 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 UJ	10.0 UJ
Fluorene	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.80 UJ	1.70 UJ	9.80 UJ	1.70 UJ	9.90 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.90 UJ	1.70 UJ	10.0 UJ
Phenanthrene	<b>4.40 J</b>	<b>4.40 J</b>	<b>2.60 J</b>	<b>2.60 J</b>	1.30 U	10.0 U	<b>1.30 J</b>	<b>1.30 J</b>	<b>5.90 J</b>	<b>5.90 J</b>	1.30 U	9.90 U	<b>1.90 J</b>	<b>1.90 J</b>	<b>2.00 J</b>	<b>2.00 J</b>	<b>3.60 J</b>	<b>3.60 J</b>
Total LPAHs (full MDL/MRL)	<b>8.50 J</b>	<b>34.4 J</b>	<b>6.70 J</b>	<b>32.6 J</b>	5.40 U	40.0 U	<b>5.40 J</b>	<b>30.7 J</b>	<b>10.0 J</b>	<b>26.9 J</b>	5.40 U	39.6 U	<b>6.00 J</b>	<b>31.9 J</b>	<b>6.10 J</b>	<b>31.7 J</b>	<b>7.70 J</b>	<b>33.6 J</b>
Total LPAHs (KM)	NC																	
Total LPAHs (KM, capped)	<b>8.50 J</b>	<b>34.4 J</b>	<b>6.70 J</b>	<b>32.6 J</b>	5.40 UJ	40.0 UJ	<b>5.40 J</b>	<b>30.7 J</b>	<b>10.0 J</b>	<b>26.9 J</b>	5.40 UJ	39.6 UJ	<b>6.00 J</b>	<b>31.9 J</b>	<b>6.10 J</b>	<b>31.7 J</b>	<b>7.70 J</b>	<b>33.6 J</b>
<b>HPAHs</b>																		
Benzo(a)anthracene	<b>3.90 J</b>	<b>3.90 J</b>	<b>2.50 J</b>	<b>2.50 J</b>	1.40 U	10.0 U	1.40 U	9.80 U	<b>10.0</b>	<b>10.0</b>	1.40 U	9.90 U	1.40 U	10.0 U	<b>1.80 J</b>	<b>1.80 J</b>	<b>3.00 J</b>	<b>3.00 J</b>
Benzo(a)pyrene	<b>4.60 J</b>	<b>4.60 J</b>	1.60 U	10.0 U	1.60 U	10.0 U	1.60 U	9.80 U	<b>11.0</b>	<b>11.0</b>	1.60 U	9.90 U	<b>2.80 J</b>	<b>2.80 J</b>	1.60 U	9.90 U	<b>2.60 J</b>	<b>2.60 J</b>
Benzo(b)fluoranthene	<b>6.90 J</b>	<b>6.90 J</b>	<b>4.20 J</b>	<b>4.20 J</b>	2.50 U	10.0 U	2.50 U	9.80 U	<b>17.0</b>	<b>17.0</b>	2.50 U	9.90 U	<b>3.60 J</b>	<b>3.60 J</b>	<b>2.70 J</b>	<b>2.70 J</b>	<b>3.50 J</b>	<b>3.50 J</b>
Benzo(g,h,i)perylene	<b>4.60 J</b>	<b>4.60 J</b>	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.80 U	<b>7.30 J</b>	<b>7.30 J</b>	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.90 U	<b>2.30 J</b>	<b>2.30 J</b>
Benzo(k)fluoranthene	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.80 U	<b>5.00 J</b>	<b>5.00 J</b>	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 UJ	10.0 UJ
Chrysene	<b>4.80 J</b>	<b>4.80 J</b>	<b>3.20 J</b>	<b>3.20 J</b>	1.40 U	10.0 U	<b>1.90 J</b>	<b>1.90 J</b>	<b>9.80</b>	<b>9.80</b>	1.40 U	9.90 U	1.40 U	10.0 U	<b>2.40 J</b>	<b>2.40 J</b>	<b>3.10 J</b>	<b>3.10 J</b>
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	9.80 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 UJ	10.0 UJ
Fluoranthene	<b>9.70 J</b>	<b>9.70 J</b>	<b>4.10 J</b>	<b>4.10 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>31.0 J</b>	<b>31.0 J</b>	2.20 UJ	9.90 UJ	2.20 UJ	10.0 UJ	<b>3.60 J</b>	<b>3.60 J</b>	<b>5.00 J</b>	<b>5.00 J</b>
Indeno(1,2,3-cd)pyrene	<b>4.90 J</b>	<b>4.90 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	1.90 UJ	10.0 UJ	1.90 UJ	9.80 UJ	<b>8.40 J</b>	<b>8.40 J</b>	1.90 UJ	9.90 UJ	1.90 UJ	10.0 UJ	1.90 UJ	9.90 UJ	<b>2.00 J</b>	<b>2.00 J</b>
Pyrene	<b>7.80 J</b>	<b>7.80 J</b>	<b>3.60 J</b>	<b>3.60 J</b>	<b>2.10 J</b>	<b>2.10 J</b>	<b>1.80 J</b>	<b>1.80 J</b>	<b>23.0 J</b>	<b>23.0 J</b>	<b>1.50 J</b>	<b>1.50 J</b>	<b>2.70 J</b>	<b>2.70 J</b>	<b>2.10 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	<b>4.90 J</b>
Total HPAHs (full MDL/MRL)	<b>51.9 J</b>	<b>67.2 J</b>	<b>28.5 J</b>	<b>59.9 J</b>	<b>20.2 J</b>	<b>84.4 J</b>	<b>20.4 J</b>	<b>74.6 J</b>	<b>125 J</b>	<b>132 J</b>	<b>19.5 J</b>	<b>90.6 J</b>	<b>23.0 J</b>	<b>79.1 J</b>	<b>23.1 J</b>	<b>62.1 J</b>	<b>31.1 J</b>	<b>46.4 J</b>
Total HPAHs (KM)	<b>51.6 J</b>	<b>59.0 J</b>	<b>26.5 J</b>	<b>33.2 J</b>	<b>16.4 J</b>	<b>22.0 J</b>	<b>16.9 J</b>	<b>20.0 J</b>	<b>125 J</b>	<b>129 J</b>	NC	NC	18.9 J	30.3 J	21.4 J	25.2 J	30.5 J	33.0 J
Total HPAHs (KM, capped)	<b>51.6 J</b>	<b>59.0 J</b>	<b>26.5 J</b>	<b>33.2 J</b>	<b>16.4 J</b>	<b>22.0 J</b>	<b>16.9 J</b>	<b>20.0 J</b>	<b>125 J</b>	<b>129 J</b>	<b>19.5 J</b>	<b>90.6 J</b>	<b>18.9 J</b>	<b>30.3 J</b>	<b>21.4 J</b>	<b>25.2 J</b>	<b>30.5 J</b>	<b>33.0 J</b>
Total PAHs (full MDL/MRL)	<b>60.4 J</b>	<b>102 J</b>	<b>35.2 J</b>	<b>92.5 J</b>	<b>25.6 J</b>	<b>124 J</b>	<b>25.8 J</b>	<b>105 J</b>	<b>135 J</b>	<b>159 J</b>	<b>24.9 J</b>	<b>130 J</b>	<b>29.0 J</b>	<b>111 J</b>	<b>29.2 J</b>	<b>93.8 J</b>	<b>38.8 J</b>	<b>80.0 J</b>
Total PAHs (KM)	<b>56.6 J</b>	<b>80.3 J</b>	<b>29.7 J</b>	<b>45.0 J</b>	<b>17.1 J</b>	<b>30.8 J</b>	<b>19.6 J</b>	<b>25.6 J</b>	<b>133 J</b>	<b>147 J</b>	NC	NC	<b>21.5 J</b>	<b>38.5 J</b>	<b>24.0 J</b>	<b>34.1 J</b>	<b>35.7 J</b>	<b>46.7 J</b>
Total PAHs (KM, capped)	<b>56.6 J</b>	<b>80.3 J</b>	<b>29.7 J</b>	<b>45.0 J</b>	<b>17.1 J</b>	<b>30.8 J</b>	<b>19.6 J</b>	<b>25.6 J</b>	<b>133 J</b>	<b>147 J</b>	<b>24.9 J</b>	<b>130 J</b>	<b>21.5 J</b>	<b>38.5 J</b>	<b>24.0 J</b>	<b>34.1 J</b>	<b>35.7 J</b>	<b>46.7 J</b>

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

**Table H-21**  
**Forebay - Pre-Removal Sediment PAH Analysis Results**  
**(Page 1 of 1)**

Site ID	A1		A2*		A3		A4		A5	
Sample ID	070926A1 SD		070926A2 SD		070927A3 SD		070925A4 SD		070925A5 SD	
Sample Date	9/26/2007		9/26/2007		9/27/2007		9/25/2007		9/25/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
<b>LPAHs</b>										
Acenaphthene	1.40 U	7.70 U	1.40 U	7.80 U	2.40 U	17.0 U	1.40 U	8.60 U	1.40 U	8.10 U
Anthracene	<b>4.30 J</b>	<b>4.30 J</b>	14.0 U	78.0 U	2.30 U	17.0 U	1.40 U	8.40 U	1.40 U	10.00 U
Fluorene	1.10 U	7.70 U	1.10 U	7.80 U	1.90 U	17.0 U	1.10 U	8.60 U	1.10 U	8.10 U
Phenanthrene	<b>9.10</b>	<b>9.10</b>	<b>3.25 J</b>	<b>3.25 J</b>	<b>2.90 J</b>	<b>2.90 J</b>	<b>4.50 J</b>	<b>4.50 J</b>	<b>5.00 J</b>	<b>5.00 J</b>
Total LPAHs (full MDL/MRL)	<b>15.9 J</b>	<b>28.8 J</b>	<b>19.8 J</b>	<b>96.9 J</b>	<b>9.50 J</b>	<b>53.9 J</b>	<b>8.40 J</b>	<b>30.1 J</b>	<b>8.90 J</b>	<b>31.2 J</b>
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	<b>15.9 J</b>	<b>28.8 J</b>	<b>19.8 J</b>	<b>96.9 J</b>	<b>9.50 J</b>	<b>53.9 J</b>	<b>8.40 J</b>	<b>30.1 J</b>	<b>8.90 J</b>	<b>31.2 J</b>
<b>HPAHs</b>										
Benzo(a)anthracene	<b>5.70 J</b>	<b>5.70 J</b>	<b>3.05 J</b>	<b>3.05 J</b>	<b>3.70 J</b>	<b>3.70 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	<b>3.50 J</b>	<b>3.50 J</b>
Benzo(a)pyrene	<b>32.0</b>	<b>32.0</b>	16.0 U	78.0 U	2.60 U	17.0 U	<b>6.10 J</b>	<b>6.10 J</b>	<b>7.40 J</b>	<b>7.40 J</b>
Benzo(b)fluoranthene	<b>11.0</b>	<b>11.0</b>	<b>7.05 J</b>	<b>7.05 J</b>	<b>4.20 J</b>	<b>4.20 J</b>	<b>6.40 J</b>	<b>6.40 J</b>	<b>7.40 J</b>	<b>7.40 J</b>
Benzo(g,h,i)perylene	<b>5.40 J</b>	<b>5.40 J</b>	<b>3.70 J</b>	<b>3.70 J</b>	<b>5.20 J</b>	<b>5.20 J</b>	<b>4.40 J</b>	<b>4.40 J</b>	<b>4.70 J</b>	<b>4.70 J</b>
Benzo(k)fluoranthene	<b>3.20 J</b>	<b>3.20 J</b>	<b>3.40 J</b>	<b>3.40 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	<b>2.30 J</b>	<b>2.30 J</b>	<b>2.50 J</b>	<b>2.50 J</b>
Chrysene	<b>7.90</b>	<b>7.90</b>	<b>5.35 J</b>	<b>5.35 J</b>	<b>4.10 J</b>	<b>4.10 J</b>	<b>4.70 J</b>	<b>4.70 J</b>	<b>5.20 J</b>	<b>5.20 J</b>
Dibenz(a,h)anthracene	1.50 U	7.70 U	<b>2.50 J</b>	<b>2.50 J</b>	<b>3.10 J</b>	<b>3.10 J</b>	1.50 U	8.60 U	1.50 U	8.10 U
Fluoranthene	<b>13.0</b>	<b>13.0</b>	<b>7.10 J</b>	<b>7.10 J</b>	<b>4.40 J</b>	<b>4.40 J</b>	<b>7.10 J</b>	<b>7.10 J</b>	<b>8.30</b>	<b>8.30</b>
Indeno(1,2,3-cd)pyrene	<b>6.30 J</b>	<b>6.30 J</b>	<b>4.60 J</b>	<b>4.60 J</b>	<b>13.0 J</b>	<b>13.0 J</b>	<b>4.00 J</b>	<b>4.00 J</b>	<b>3.90 J</b>	<b>3.90 J</b>
Pyrene	<b>13.0</b>	<b>13.0</b>	<b>6.85 J</b>	<b>6.85 J</b>	<b>4.50 J</b>	<b>4.50 J</b>	<b>6.60 J</b>	<b>6.60 J</b>	<b>7.80 J</b>	<b>7.80 J</b>
Total HPAHs (full MDL/MRL)	<b>99.0 J</b>	<b>105 J</b>	<b>59.6 J</b>	<b>121.6 J</b>	<b>48.1 J</b>	<b>62.5 J</b>	<b>46.4 J</b>	<b>53.5 J</b>	<b>52.2 J</b>	<b>58.8 J</b>
Total HPAHs (KM)	<b>99.0 J</b>	<b>103 J</b>	<b>48.4 J</b>	<b>48.4 J</b>	<b>48.1 J</b>	<b>50.6 J</b>	<b>46.4 J</b>	<b>49.9 J</b>	<b>52.2 J</b>	<b>56.0 J</b>
Total HPAHs (KM, capped)	<b>99.0 J</b>	<b>103 J</b>	<b>48.4 J</b>	<b>48.4 J</b>	<b>48.1 J</b>	<b>50.6 J</b>	<b>46.4 J</b>	<b>49.9 J</b>	<b>52.2 J</b>	<b>56.0 J</b>
Total PAHs (full MDL/MRL)	<b>115 J</b>	<b>134 J</b>	<b>79.4 J</b>	<b>218.5 J</b>	<b>57.6 J</b>	<b>116.4 J</b>	<b>54.8 J</b>	<b>83.6 J</b>	<b>61.1 J</b>	<b>90.0 J</b>
Total PAHs (KM)	<b>114 J</b>	<b>126 J</b>	<b>57.2 J</b>	<b>65.6 J</b>	<b>56.0 J</b>	<b>67.8 J</b>	<b>53.8 J</b>	<b>69.2 J</b>	<b>60.1 J</b>	<b>77.0 J</b>
Total PAHs (KM, capped)	<b>114 J</b>	<b>126 J</b>	<b>57.2 J</b>	<b>65.6 J</b>	<b>56.0 J</b>	<b>67.8 J</b>	<b>53.8 J</b>	<b>69.2 J</b>	<b>60.1 J</b>	<b>77.0 J</b>

**Notes:**

MDL = method detection limit

MRL = method reporting limit

**bold** = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

\* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

NC = Not calculated

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped

**Table H-22**  
**Downstream Sediment PAH Analysis Results**  
**(Page 1 of 1)**

Site ID	P46		P47		P48		P49		P50		P51	
Sample ID	08031046SD		08031047SD		08031048SD		08031049SD		08031150SD		08031151SD	
Sample Date	3/10/2008		3/10/2008		3/10/2008		3/10/2008		3/11/2008		3/11/2008	
Censoring Level for Undetected Results	MDL	MRL										
<b>LPAHs</b>												
Acenaphthene	1.00 U	10.0 U	1.00 U	9.70 U	1.00 U	9.70 U	1.00 U	9.90 U	1.00 U	9.90 U	1.00 U	9.80 U
Anthracene	<b>2.70 J</b>	<b>2.70 J</b>	1.40 U	9.70 U	1.40 U	9.70 U	1.40 U	9.90 U	<b>3.10 J</b>	<b>3.10 J</b>	<b>1.60 J</b>	<b>1.60 J</b>
Fluorene	1.70 U	10.0 U	1.70 U	9.70 U	1.70 U	9.70 U	1.70 U	9.90 U	1.70 U	9.90 U	1.70 U	9.80 U
Phenanthrene	<b>4.80 J</b>	<b>4.80 J</b>	1.30 U	9.70 U	1.30 U	9.70 U	<b>2.20 J</b>	<b>2.20 J</b>	<b>4.90 J</b>	<b>4.90 J</b>	<b>4.00 J</b>	<b>4.00 J</b>
Total LPAHs (full MDL/MRL)	<b>10.2 J</b>	<b>27.5 J</b>	5.40 U	38.8 U	5.40 U	38.8 U	<b>6.30 J</b>	<b>31.9 J</b>	<b>10.7 J</b>	<b>27.8 J</b>	<b>8.30 J</b>	<b>25.2 J</b>
Total LPAHs (KM)	NC											
Total LPAHs (KM, capped)	<b>10.2 J</b>	<b>27.5 J</b>	5.40 U	38.8 U	5.40 U	38.8 U	<b>6.30 J</b>	<b>31.9 J</b>	<b>10.7 J</b>	<b>27.8 J</b>	<b>8.30 J</b>	<b>25.2 J</b>
<b>HPAHs</b>												
Benzo(a)anthracene	<b>9.60 J</b>	<b>9.60 J</b>	<b>1.70 J</b>	<b>1.70 J</b>	<b>1.80 J</b>	<b>1.80 J</b>	<b>3.30 J</b>	<b>3.30 J</b>	<b>12.0</b>	<b>12.0</b>	<b>3.70 J</b>	<b>3.70 J</b>
Benzo(a)pyrene	11.0	11.0	<b>1.90 J</b>	<b>1.90 J</b>	1.60 U	9.70 U	<b>4.30 J</b>	<b>4.30 J</b>	14.0	14.0	<b>4.50 J</b>	<b>4.50 J</b>
Benzo(b)fluoranthene	<b>9.70 J</b>	<b>9.70 J</b>	2.50 U	9.70 U	2.50 U	9.70 U	<b>4.50 J</b>	<b>4.50 J</b>	<b>16.0</b>	<b>16.0</b>	<b>3.30 J</b>	<b>3.30 J</b>
Benzo(g,h,i)perylene	<b>5.80 J</b>	<b>5.80 J</b>	2.30 U	9.70 U	2.30 U	9.70 U	<b>2.80 J</b>	<b>2.80 J</b>	<b>6.80 J</b>	<b>6.80 J</b>	2.30 U	9.80 U
Benzo(k)fluoranthene	<b>4.20 J</b>	<b>4.20 J</b>	2.50 U	9.70 U	2.50 U	9.70 U	2.50 U	9.90 U	<b>6.50 J</b>	<b>6.50 J</b>	2.50 U	9.80 U
Chrysene	<b>9.60 J</b>	<b>9.60 J</b>	<b>1.60 J</b>	<b>1.60 J</b>	1.40 U	9.70 U	<b>3.50 J</b>	<b>3.50 J</b>	18.0	18.0	<b>3.40 J</b>	<b>3.40 J</b>
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	9.70 U	2.20 U	9.70 U	2.20 U	9.90 U	<b>2.30 J</b>	<b>2.30 J</b>	2.20 U	9.80 U
Fluoranthene	<b>20.0</b>	<b>20.0</b>	<b>2.90 J</b>	<b>2.90 J</b>	2.20 U	9.70 U	<b>4.30 J</b>	<b>4.30 J</b>	22.0	22.0	<b>6.20 J</b>	<b>6.20 J</b>
Indeno(1,2,3-cd)pyrene	<b>6.30 J</b>	<b>6.30 J</b>	1.90 U	9.70 U	1.90 U	9.70 U	<b>2.80 J</b>	<b>2.80 J</b>	<b>8.20 J</b>	<b>8.20 J</b>	1.90 U	9.80 U
Pyrene	<b>20.0</b>	<b>20.0</b>	<b>2.60 J</b>	<b>2.60 J</b>	<b>1.80 J</b>	<b>1.80 J</b>	<b>4.60 J</b>	<b>4.60 J</b>	21.0	21.0	<b>6.40 J</b>	<b>6.40 J</b>
Total HPAHs (full MDL/MRL)	<b>98.4 J</b>	<b>106 J</b>	<b>22.1 J</b>	<b>59.2 J</b>	<b>20.2 J</b>	<b>81.2 J</b>	<b>34.8 J</b>	<b>49.9 J</b>	<b>127 J</b>	<b>127 J</b>	<b>36.4 J</b>	<b>66.7 J</b>
Total HPAHs (KM)	<b>98.4 J</b>	<b>104 J</b>	<b>19.2 J</b>	<b>21.4 J</b>	<b>16.0 J</b>	NC J	<b>34.5 J</b>	<b>37.6 J</b>	<b>127 J</b>	<b>127 J</b>	<b>35.1 J</b>	<b>45.8 J</b>
Total HPAHs (KM-capped)	<b>98.4 J</b>	<b>104 J</b>	<b>19.2 J</b>	<b>21.4 J</b>	<b>16.0 J</b>	<b>81.2 J</b>	<b>34.5 J</b>	<b>37.6 J</b>	<b>127 J</b>	<b>127 J</b>	<b>35.1 J</b>	<b>45.8 J</b>
Total PAHs (full MDL/MRL)	<b>109 J</b>	<b>134 J</b>	<b>27.5 J</b>	<b>98.0 J</b>	<b>25.6 J</b>	<b>120 J</b>	<b>41.1 J</b>	<b>81.8 J</b>	<b>138 J</b>	<b>155 J</b>	<b>44.7 J</b>	<b>91.9 J</b>
Total PAHs (KM)	<b>107 J</b>	<b>123 J</b>	<b>21.4 J</b>	<b>30.0 J</b>	<b>16.8 J</b>	NC	<b>37.5 J</b>	<b>50.2 J</b>	<b>137 J</b>	<b>145 J</b>	<b>40.6 J</b>	<b>57.9 J</b>
Total PAHs (KM, capped)	<b>107 J</b>	<b>123 J</b>	<b>21.4 J</b>	<b>30.0 J</b>	<b>16.8 J</b>	<b>120 J</b>	<b>37.5 J</b>	<b>50.2 J</b>	<b>137 J</b>	<b>145 J</b>	<b>40.6 J</b>	<b>57.9 J</b>

**Notes:**

MDL = method detection limit

MRL = method reporting limit

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U = The analyte was not detected at or above the MDL.

PAH = Polycyclic Aromatic Hydrocarbons

LPAH = Low Molecular Weight PAH

HPAH = High Molecular Weight PAH

All units are in micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ), dry weight

NC = Not calculated

KM = Kaplan-Meier-based with Efron's bias correction

KM, capped = Kaplan-Meier-based with Efron's bias correction, capped